

## MILL CREEK DOLOMITE, LLC.

P. O. Box 2668  
Winnemucca, NV 89446  
(775) 623-9117

9915 W. Amos Conley Road  
Mill Creek, OK 74856  
(580) 384-5271

2/23/2015

Kent Wilkens, Assistant Chief  
Planning and Management Division  
State of Oklahoma  
Water Resources Board  
3800 N. Classen Boulevard  
Oklahoma City, OK 73118

Re: Consumptive Use of Pit Water, 4th Quarter Report 2014

Dear Mr. Wilkins;

As required under **Oklahoma Statue 82-1020.2 (E) (1) and Oklahoma Administrative Code 785:30-15**, Mill Creek Dolomite is respectively submitting the water report for the fourth quarter of calendar year 2014.

If you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

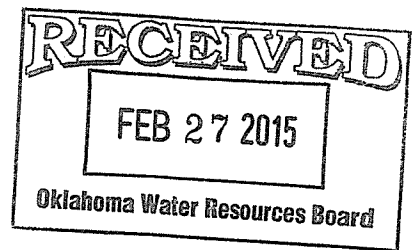
A handwritten signature in cursive script that reads "Bill Rogers".

Bill Rogers  
General Manager  
Mill Creek Dolomite, LLC

**Attachments: Quarterly Report, 4th Quarter 2014**



**CONSUMPTIVE USE REPORT**  
**4th QUARTER, 2014**  
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 pit (s)	14,516,357
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	123,760
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	123760
6	<b>Pit Ground Water Volume</b> (Line 1 minus Line 5)	14,392,597
DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	279,518
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)	393,243
10	Volume of pit water groundwater that is used for other beneficial uses off the mine site	104,063
11	<b>Defined Elements of Consumptive Use of Pit Groundwater</b> ( Add Lines 7 through 10)	776,824
PIT GROUNDWATER BALANCE		
12	Line 6 minus Line 11	13,615,773
13	<b>Groundwater Augmentation:</b> Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management Plan	
14	<b>Stream Augmentation:</b> 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	
15	<b>Precipitation &amp; Run-off</b> Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation	
16	<b>Recycled Pit Groundwater</b> Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)	
17	<b>Other Non-Consumptive Losses</b> 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)	
18	Add lines 13 through 17	0
19	<b>Other Consumptive Use (adjusted) (Line 12 minus Line 18)</b>	13,615,773
TOTAL REPORTED CONSUMPTIVE USE OF PIT WATER		
20	Total Net Reported Consumptive Use: (Line 11 plus Line 19)	14,392,597



**PIT WATER MONITORING DATA**  
MILL CREEK DOLOMITE, LLC

**SUMP SURFACE AREA DATA:**

SUMP A (sq ft)  
PUMP A (GPM)

12925  
300

SUMP B (sq ft)  
PUMP B (GPM)

8307  
200

DATE	WK	PU-19 QA			PU-18 QB			PIT WATER PUMPED				PIT RAIN WATER					
		Meter Reading	HRS. RAN		Meter Reading	HRS. RAN		QA GPD	QB GPD	Grand Total	RAIN FALL	VOLUME QA	GALLONS QA	VOLUME QB	GALLONS QB	TOTAL GALLONS	
12/30/13	0	1114.0	0.0		12274.0	7.0											
1/6/14	1	1342	228.0		12408	134.0		586286	229714	816000	0.0	0	0	0	0	0	
1/13/14	2	1415	73.0		12454	46.0		187714	78857	266571	0.4	431	277	2071	5295	5295	
1/20/14	3	1490	75.0		12456	2.0		192857	3429	196286	0.0	0	0	0	0	0	
1/27/14	4	1570	80.0		12458	2.0		205714	3429	209143	0.0	0	0	0	0	0	
<b>Monthly Totals</b>			456.0			184.0		9087429	2444571	11532000	0.4	431	277	2071	5295	5295	
2/3/14	5	1660	90.0		12525	67.0		231429	114857	346286	0.45	485	312	2330	5956	5956	
2/10/14	6	1723	63.0		12613	88.0		162000	150857	312857	0.65	700	450	3366	8604	8604	
2/17/14	7	1751	28.0		12690	77.0		72000	132000	204000	0	0	0	0	0	0	
2/24/14	8	1760	9.0		12715	25.0		23143	42857	66000	0.05	54	35	259	662	662	
<b>Monthly Totals</b>			190.0			257.0		3420000	3084000	6504000	1.15	1239	796	5956	15222	15222	
3/3/14	9	1772	12.0		12725	10.0		30857	17143	48000	0	0	0	0	0	0	
3/10/14	10	1784	12.0		12781	56.0		30857	96000	126857	0	0	0	0	0	0	
3/17/14	11	1821	37.0		12781	0.0		95143	0	95143	1.7	1831	1177	8804	22502	22502	
3/24/14	12	1851	30.0		12891	110.0		77143	188571	265714	0	0	0	0	0	0	
<b>Monthly Totals</b>			91.0			176.0		1813500	2338286	4151786	1.7	1831	1177	8804	22502	22502	
<b>1st QUARTER TOTALS</b>			737.0			617.0		14320929	7866857	22187786	3.25	3500.52	2249.81	16830.85	43018	43018	
3/31/14	13	1877	26.0		12891	0.0		66857	0	66857	0	0	0	0	0	0	
4/7/14	14	1898	21.0		12918	27.0		54000	46286	100286	0.2	215	138	1036	2647	2647	
4/14/14	15	1915	17.0		12918	0.0		43714	0	43714	0	0	0	0	0	0	
4/21/14	16	1936	21.0		12918	0.0		54000	0	54000	0.6	646	415	3107	7942	7942	
4/28/14	17	1970	34.0		12970	52.0		87429	89143	176571	0	0	0	0	0	0	
<b>Monthly Totals</b>			119.0			79.0		2295000	1015714	3310714	0.8	862	554	4143	10589	10589	
5/5/14	18	1976	6.0		12974	4.0		15429	6857	22286	0	0	0	0	0	0	
5/12/14	19	1994	18.0		12974	0.0		46286	0	46286	1.6	1723	1108	8286	21178	21178	
5/19/14	20	2020	26.0		12978	4.0		66857	6857	73714	0	0	0	0	0	0	
5/26/14	21	2065	45.0		12986	8.0		115714	13714	129429	2.1	2262	1454	10875	27796	27796	
<b>Monthly Totals</b>			95.0			16.0		1893214	212571	2105786	3.7	3985	2561	19161	48975	48975	
6/2/14	22	2090	25.0		12986	0.0		64286	0	64286	4.0	4308	2769	20715	52946	52946	
6/9/14	23	2121	31.0		12986	0.0		79714	0	79714	1.5	1616	1038	7768	19855	19855	
6/16/14	24	2289	168.0		12986	0.0		432000	0	432000	2.0	2154	1385	10357	26473	26473	



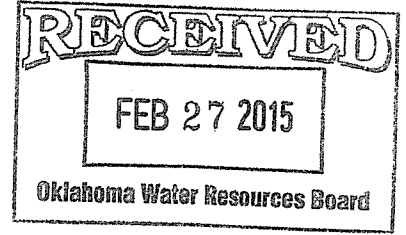


6/23/14	25	2368	79.0	13326	340.0	203143	582857	786000	1.0	1077	8058	692	5179	13236
<b>Monthly Totals</b>			303.0		340.0	5843571	4371429	10215000	8.5	9155	68490	5884	44019	112509
<b>2nd QUARTER TOTALS</b>			<b>517.0</b>		<b>435.0</b>	<b>10031786</b>	<b>5599714</b>	<b>15631500</b>	<b>13.00</b>	<b>14002.08</b>	<b>104749.59</b>	<b>8999.25</b>	<b>67323.39</b>	<b>172073</b>
6/30/14	26	2398	30.0	13353	27.0	77143	46286	123429	2.6	2800	20950	1800	13465	34415
7/7/14	27	2436	38.0	13353	0.0	97714	0	97714	0	0	0	0	0	0
7/14/14	28	2460	24.0	13362	9.0	61714	15429	77143	1.6	1723	12892	1108	8286	21178
7/21/14	29	2510	50.0	13454	92.0	128571	157714	286286	0	0	0	0	0	0
7/28/14	30	2570	60.0	13486	32.0	154286	54857	209143	1.1	1185	8863	761	5697	14560
<b>Monthly Totals</b>			202.0		160.0	4025571	2125714	6151286	5.3	5709	42706	3669	27447	70153
8/4/14	31	2590	20.0	13512	26.0	51429	44571	96000	0.3	323	2417	208	1554	3971
8/11/14	32	2612	22.0	13512	0.0	56571	0	56571	1.25	1346	10072	865	6473	16545
8/18/14	33	2646	34.0	13584	72.0	87429	123429	210857	0	0	0	0	0	0
8/25/14	34	2683	37.0	13584	0.0	95143	0	95143	0	0	0	0	0	0
<b>Monthly Totals</b>			113.0		98.0	2251929	1302000	3553929	1.55	1669	12489	1073	8027	20516
9/1/14	35	2683	0.0	13584	0.0	0	0	0	0	0	0	0	0	0
9/8/14	36	2700	17.0	13585	1.0	43714	1714	45429	0	0	0	0	0	0
9/15/14	37	2728	28.0	13585	0.0	72000	0	72000	1.80	1939	14504	1246	9322	23825
9/22/14	38	2760	32.0	13585	0.0	82286	0	82286	0	0	0	0	0	0
9/29/14	39	2804	44.0	13622	37.0	113143	63429	176571	0	0	0	0	0	0
<b>Monthly Totals</b>			121.0		38.0	2333571	488571	2822143	1.80	1939	14504	1246	9322	23825
<b>3rd QUARTER TOTALS</b>			<b>436.0</b>		<b>296.0</b>	<b>8611071</b>	<b>3916286</b>	<b>12527357</b>	<b>8.7</b>	<b>9317</b>	<b>69699</b>	<b>5988</b>	<b>44796</b>	<b>114495</b>
10/6/14	40	2862	58.0	636	0.0	149143	0	149143	0.5	539	4029	346	2589	6618
10/13/14	41	2950	88.0	728	92.0	226286	157714	384000	2.75	2962	22159	1904	14241	36400
10/20/14	42	3009	59.0	728	0.0	151714	0	151714	0	0	0	0	0	0
10/27/14	43	3056	47.0	728	0.0	120857	0	120857	0	0	0	0	0	0
<b>Monthly Totals</b>			252.0		92.0	5022000	1222286	6244286	3.25	3501	26187	2250	16831	43018
11/3/14	44	3078	22.0	728	0.0	56571	0	56571	0	0	0	0	0	0
11/10/14	45	3113	35.0	728	0.0	90000	0	90000	1.75	1885	14101	1211	9063	23164
11/17/14	46	3140	27.0	732	4.0	69429	6857	76286	0	0	0	0	0	0
11/30/14	47	3200	60.0	756	24.0	154286	41143	195429	2.5	2693	20144	1731	12947	33091
<b>Monthly Totals</b>			144.0		28.0	2777143	360000	3137143	4.25	4578	34245	2942	22010	56255
12/7/14	48	3255	55.0	928	172.0	141429	294857	436286	0.25	269	2014	173	1295	3309
12/14/14	49	3288	33.0	928	0.0	84857	0	84857	0.4	431	3223	277	2071	5295
12/21/14	50	3322	34.0	928	0.0	87429	0	87429	0.7	754	5640	485	3625	9265
12/28/14	51	3338	16.0	928	0.0	41143	0	41143	0.5	539	4029	346	2589	6618
12/30/14	52	3343	5.0	928	0.0	12857	0	12857	0	0	0	0	0	0
<b>Monthly Totals</b>			143.0		172.0	2849786	2285143	5134929	1.85	1993	14907	1281	9581	24487
<b>4th QUARTER TOTALS</b>			<b>539.0</b>		<b>292.0</b>	<b>10648929</b>	<b>3867429</b>	<b>14516357</b>	<b>9.4</b>	<b>10071</b>	<b>75339</b>	<b>6473</b>	<b>48421</b>	<b>123760</b>





QUARRY DEWATER & CREEK MAKE-UP WATER



DATE	WK	PU-19 QA		PU-18 QB		PU-04		PU-03		PU-21	
		65HP Meter Reading	HRS. RAN	35HP Meter Reading	HRS. RAN	Big Meter	Hrs. Ran	Little Meter	Hrs.	AG-Meter	Lime Hrs.
10/7/14	39	2862.0	58.0	636.0	0.0	3288.0	0.0	1279.0	0.0	11027.0	0.0
10/14/14	40	2950.0	88.0	728.0	92.0	3288.0	0.0	1279.0	0.0	11027.0	0.0
10/20/14	41	3009.0	59.0	728.0	0.0	3300.0	12.0	1279.0	0.0	11027.0	0.0
10/27/14	42	3056.0	47.0	728.0	0.0	3325.0	25.0	1279.0	0.0	11027.0	0.0
10/31/14	43	3065.0	9.0	728.0	0.0	3359.0	34.0	1279.0	0.0	11027.0	0.0
			261.0		92.0		71.0		0.0		0.0
11/3/14	44	3078.0	13.0	728.0	0.0	3372.0	13.0	1279.0	0.0	11027.0	0.0
11/10/14	45	3113.0	35.0	728.0	0.0	3372.0	0.0	1279.0	0.0	11027.0	0.0
11/17/14	46	3140.0	27.0	732.0	4.0	3390.0	18.0	1279.0	0.0	11027.0	0.0
11/30/14	47	3200.0	60.0	756.0	24.0	3396.0	6.0	1279.0	0.0	11027.0	0.0
			135.0		28.0		37.0		0.0		0.0
12/7/14	48	3255.0	55.0	928.0	172.0	3406.0	10.0	1279.0	0.0	11027.0	0.0
12/14/14	49	3288.0	33.0	928.0	0.0	3418.0	12.0	1279.0	0.0	11027.0	0.0
12/21/14	50	3322.0	34.0	928.0	0.0	3418.0	0.0	1279.0	0.0	11027.0	0.0
12/28/14	51	3338.0	16.0	928.0	0.0	3418.0	0.0	1279.0	0.0	11027.0	0.0
12/30/14	52	3343.0	5.0	928.0	0.0	3418.0	0.0	1279.0	0.0	11027.0	0.0
			138.0		172.0		22.0	0.0	0.0		0.0
	YTD	TOTALS	2086.0		1557.0		636.0		0.0		117.0



AMOUNT COMMENTS MONTH YTD 2014 2013

NOVEMBER

1-Nov		
2-Nov		
3-Nov		
4-Nov		
5-Nov	1.75	
6-Nov		
7-Nov		
8-Nov		
9-Nov		
10-Nov		
11-Nov		
12-Nov		
13-Nov		
14-Nov		
15-Nov		
16-Nov		
17-Nov		
18-Nov		
19-Nov		
20-Nov		
21-Nov		
22-Nov	2.5	
23-Nov		
24-Nov		
25-Nov		
26-Nov		
27-Nov		
28-Nov		
29-Nov		
30-Nov		

*4<sup>th</sup> Qtr*

4.25 31.3 24.8  
 MONTH YTD 2014 2013

DECEMBER

1-Dec		
2-Dec		
3-Dec		
4-Dec		
5-Dec		
6-Dec	0.25	
7-Dec		
8-Dec		
9-Dec		
10-Dec		
11-Dec		
12-Dec	0.4	
13-Dec		
14-Dec		
15-Dec		
16-Dec		
17-Dec		
18-Dec	0.7	
19-Dec		
20-Dec		
21-Dec		
22-Dec	0.5	
23-Dec		
24-Dec		
25-Dec		
26-Dec		
27-Dec		
28-Dec		
29-Dec		
30-Dec		
31-Dec		

*4<sup>th</sup> Qtr*

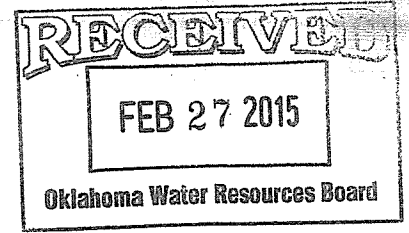
1.85 33.1 26.25





SEPTEMBER

1-Sep		
2-Sep		
3-Sep		
4-Sep		
5-Sep		
6-Sep		
7-Sep		
8-Sep		
9-Sep		
10-Sep		
11-Sep		
12-Sep		
13-Sep		
14-Sep		
15-Sep		
16-Sep		
17-Sep		
18-Sep	1.3	
19-Sep		
20-Sep		
21-Sep	0.5	
22-Sep		
23-Sep		
24-Sep		
25-Sep		
26-Sep		
27-Sep		
28-Sep		
29-Sep		
30-Sep		



1.8 23.75 21.5  
MONTH YTD 2014 2013

OCTOBER

1-Oct		
2-Oct		
3-Oct	0.5	
4-Oct		
5-Oct		
6-Oct		
7-Oct		
8-Oct		
9-Oct		
10-Oct	1	
11-Oct		
12-Oct		
13-Oct	1.75	
14-Oct		
15-Oct		
16-Oct		
17-Oct		
18-Oct		
19-Oct		
20-Oct		
21-Oct		
22-Oct		
23-Oct		
24-Oct		
25-Oct		
26-Oct		
27-Oct		
28-Oct		
29-Oct		
30-Oct		
31-Oct		

4<sup>th</sup> Qtr

3.25 27.0 24.1



**MILL CREEK DOLOMITE, LLC**

**PIT WATER MONITORING DATA**

**SUMP DATA:**

SUMP A: 12,925 Sq. Ft.

SUMP B: 8,307 Sq. Ft.

**SETTLING POND DATA:**

SETTLING POND A: 30,000 Sq. Ft. (F-02, MAP 3 – SSWMCP)

SETTLING POND B: 35,000 Sq. Ft. (F-01, MAP 3 – SSWMCP)

**PRODUCTION DATA:**

Tons mined and shipped to the plant at 2.5% moisture:

<u>MONTH</u>	<u>TONS</u>	<u>MOISTURE %</u>
October	21,280	2.5
November	14,063	2.5
December	13,818	2.0
Total	49,161	

Calculations for gallons of water shipped to the Plant:

21,280 x .025 = 532 tons or 1,064,000 lbs

14,063 x .025 = 351.6 tons or 703,200 lbs

13,818 x .020 = 276.4 tons or 552,800 lbs

Total lbs. = 2,320,000 lbs

Gallons = 2,320,000 lbs x 1 gal/8.3 lbs = 279,518 gallons of water

**Misc. Water Data:**

**List of Equivalents:**

**Volume Units**

One Gallon

= 231 cubic inches

= 0.13368 cubic foot weighs approximately 8.3 pounds

One Cubic Foot

= 1,728 cubic inches

= 7.481 gallons (7.5 for ordinary calculations) weighs 62.4 pounds (62.5 for ordinary calculations)





MILL CREEK DOLOMITE 2014 TONS

Month	Blasted Tons	Broken Boulders Recovered	Tons Hauled From Pit	Tons Crushed	North Pit Processed Tons	South Pit Processed Tons	Ball Mill Tons	Total Tons Shipped
January	34,475		18,403	15,314	12,657	10,512	4,105	16,070
February	39,939		16,046	20,068	16,142	13,200	7,426	17,414
March	0		19,803	16,233	14,580	10,487	1,929	14,269
April	20,914		14,893	16,260	14,382	11,084	2,278	14,290
May	14,950		18,634	15,481	12,630	9,603	995	12,360
June	23,156		15,176	16,688	16,383	11,464	538	16,477
July	0		13,944	12,780	13,038	9,795	244	14,416
August	43,338		13,020	21,344	15,749	12,820	1,257	15,379
September	0		11,960	14,953	12,477	9,840	717	18,053
October	22,027		21,280	21,344	15,749	12,820	1,257	15,379
November	0		14,063	14,953	12,477	9,840	717	18,053
December	13,000		13,818	14,070	13,669	10,767	166	14,974
<b>Totals</b>	<b>211,799</b>	<b>0</b>	<b>191,040</b>	<b>199,488</b>	<b>169,933</b>	<b>132,232</b>	<b>21,629</b>	<b>187,135</b>
1st quarter	74,414	0	54,252	51,615	43,379	34,199	13,460	47,753
2nd quarter	59,020	0	48,703	48,429	43,395	32,151	3,811	43,127
3rd quarter	43,338	0	38,924	49,077	41,264	32,455	2,218	47,848
4th quarter	35,027	0	49,161	50,367	41,895	33,427	2,140	48,406



**PIT WATER MONITORING DATA  
MILL CREEK DOLOMITE, LLC  
EVAPORATION**

Sump A (sq ft) 12,925 Sump B (sq ft) 8,307  
 Settling A (sq ft) 30,000 Settling B (sq ft) 35,000

October, 2014		Corrected Evaporation Rate (in)	Sump A		Sump B		Settling A		Settling B		Total Evaporation (Gallons)
Date	Pan Evaporation (in)		Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation Volume (cu ft)	Evaporation (Gallons)	
10/1/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
10/2/2014	0.19	0.133	143.25	1071.67	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
10/3/2014	0.19	0.133	143.25	1071.67	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
10/4/2014	0.17	0.119	128.17	958.86	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26
10/5/2014	0.16	0.112	120.63	902.46	77.53	580.02	280.00	2094.68	326.67	2443.79	6020.95
10/6/2014	0.17	0.119	128.17	958.86	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26
10/7/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
10/8/2014	0.19	0.133	143.25	1071.67	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
10/9/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
10/10/2014	0.23	0.161	173.41	1297.28	111.45	833.77	402.50	3011.10	469.58	3512.95	8655.11
10/11/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86
10/12/2014	0.16	0.112	120.63	902.46	77.53	580.02	280.00	2094.68	326.67	2443.79	6020.95
10/13/2014	0.11	0.077	82.94	620.44	53.30	398.76	192.50	1440.09	224.58	1680.11	4139.40
10/14/2014	0.23	0.161	173.41	1297.28	111.45	833.77	402.50	3011.10	469.58	3512.95	8655.11
10/15/2014	0.14	0.098	105.55	789.65	67.84	507.51	245.00	1832.85	285.83	2138.32	5268.33
10/16/2014	0.20	0.14	150.79	1128.07	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19
10/17/2014	0.19	0.133	143.25	1071.67	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
10/18/2014	0.21	0.147	158.33	1184.48	101.76	761.27	367.50	2749.27	428.75	3207.48	7902.49
10/19/2014	0.13	0.091	98.01	733.25	62.99	471.26	227.50	1701.93	265.42	1985.58	4892.02
10/20/2014	0.12	0.084	90.48	676.84	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71
10/21/2014	0.13	0.091	98.01	733.25	62.99	471.26	227.50	1701.93	265.42	1985.58	4892.02
10/22/2014	0.12	0.084	90.48	676.84	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71
10/23/2014	0.12	0.084	90.48	676.84	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71
10/24/2014	0.15	0.105	113.09	846.05	72.69	543.77	262.50	1963.76	306.25	2291.06	5644.64
10/25/2014	0.15	0.105	113.09	846.05	72.69	543.77	262.50	1963.76	306.25	2291.06	5644.64
10/26/2014	0.21	0.147	158.33	1184.48	101.76	761.27	367.50	2749.27	428.75	3207.48	7902.49
10/27/2014	0.25	0.175	188.49	1410.09	121.14	906.28	437.50	3272.94	510.42	3818.43	9407.73
10/28/2014	0.25	0.175	188.49	1410.09	121.14	906.28	437.50	3272.94	510.42	3818.43	9407.73
10/29/2014	0.14	0.098	105.55	789.65	67.84	507.51	245.00	1832.85	285.83	2138.32	5268.33
10/30/2014	0.14	0.098	105.55	789.65	67.84	507.51	245.00	1832.85	285.83	2138.32	5268.33
10/31/2014	0.16	0.112	120.63	902.46	77.53	580.02	280.00	2094.68	326.67	2443.79	6020.95
<b>Monthly Totals</b>			<b>4033.68</b>	<b>30175.94</b>	<b>2592.48</b>	<b>19394.31</b>	<b>9362.50</b>	<b>70040.86</b>	<b>10922.92</b>	<b>81714.34</b>	<b>201325.46</b>





**PIT WATER MONITORING DATA  
MILL CREEK DOLOMITE, LLC  
EVAPORATION**

Sump A (sq ft) 12,925 Sump B (sq ft) 8,307  
Settling A (sq ft) 30,000 Settling B (sq ft) 35,000

November, 2014																			
Date	Pan Evaporation (in)	Corrected Evaporation Rate (in)	Sump A Evaporation Volume (cu ft)	Sump A Evaporation (Gallons)	Sump B Evaporation Volume (cu ft)	Sump B Evaporation (Gallons)	Settling A Evaporation Volume (cu ft)	Settling A Evaporation (Gallons)	Settling B Evaporation Volume (cu ft)	Settling B Evaporation (Gallons)	Total Evaporation (Gallons)								
11/1/2014	0.13	0.091	98.01	733.25	62.99	471.26	227.50	1701.93	265.42	1985.58	4892.02								
11/2/2014	0.15	0.105	113.09	846.05	72.69	543.77	262.50	1963.76	306.25	2291.06	5644.64								
11/3/2014	0.13	0.091	98.01	733.25	62.99	471.26	227.50	1701.93	265.42	1985.58	4892.02								
11/4/2014	0.07	0.049	52.78	394.83	33.92	253.76	122.50	916.42	142.92	1069.16	2634.16								
11/5/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86								
11/6/2014	0.15	0.105	113.09	846.05	72.69	543.77	262.50	1963.76	306.25	2291.06	5644.64								
11/7/2014	0.12	0.084	90.48	676.84	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71								
11/8/2014	0.17	0.119	128.17	958.86	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26								
11/9/2014	0.14	0.098	105.55	789.65	67.84	507.51	245.00	1832.85	285.83	2138.32	5268.33								
11/10/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35								
11/11/2014	0.20	0.140	150.79	1128.07	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19								
11/12/2014	0.11	0.077	82.94	620.44	53.30	398.76	192.50	1440.09	224.58	1680.11	4139.40								
11/13/2014	0.11	0.077	82.94	620.44	53.30	398.76	192.50	1440.09	224.58	1680.11	4139.40								
11/14/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86								
11/15/2014	0.08	0.056	60.32	451.23	38.77	290.01	140.00	1047.34	163.33	1221.90	3010.47								
11/16/2014	0.03	0.021	22.62	169.21	14.54	108.75	52.50	392.75	61.25	458.21	1128.93								
11/17/2014	0.07	0.049	52.78	394.83	33.92	253.76	122.50	916.42	142.92	1069.16	2634.16								
11/18/2014	0.10	0.07	75.40	564.04	48.46	362.51	175.00	1309.18	204.17	1527.37	3763.09								
11/19/2014	0.12	0.084	90.48	676.84	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71								
11/20/2014	0.10	0.07	75.40	564.04	48.46	362.51	175.00	1309.18	204.17	1527.37	3763.09								
11/21/2014	0.02	0.014	15.08	112.81	9.69	72.50	35.00	261.84	40.83	305.47	752.62								
11/22/2014	0.03	0.021	22.62	169.21	14.54	108.75	52.50	392.75	61.25	458.21	1128.93								
11/23/2014	0.15	0.105	113.09	846.05	72.69	543.77	262.50	1963.76	306.25	2291.06	5644.64								
11/24/2014	0.12	0.084	90.48	676.84	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71								
11/25/2014	0.07	0.049	52.78	394.83	33.92	253.76	122.50	916.42	142.92	1069.16	2634.16								
11/26/2014	0.12	0.084	90.48	676.84	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71								
11/27/2014	0.08	0.056	60.32	451.23	38.77	290.01	140.00	1047.34	163.33	1221.90	3010.47								
11/28/2014	0.14	0.098	105.55	789.65	67.84	507.51	245.00	1832.85	285.83	2138.32	5268.33								
11/29/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80								
11/30/2014	0.17	0.119	128.17	958.86	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26								
<b>Monthly Totals</b>											<b>2631.31</b>	<b>19684.86</b>	<b>1691.17</b>	<b>12651.62</b>	<b>6107.50</b>	<b>45690.21</b>	<b>7125.42</b>	<b>53305.24</b>	<b>131331.93</b>





**PIT WATER MONITORING DATA**  
**MILL CREEK DOLOMITE, LLC**  
**EVAPORATION**

Sump A (sq ft) 12,925 Sump B (sq ft) 8,307  
 Settling A (sq ft) 30,000 Settling B (sq ft) 35,000

December, 2014												
Date	Pan Evaporation (in)	Corrected Evaporation Rate (in)	Sump A Evaporation Volume (cu ft)	Sump A Evaporation (Gallons)	Sump B Evaporation Volume (cu ft)	Sump B Evaporation (Gallons)	Settling A Evaporation Volume (cu ft)	Settling A Evaporation (Gallons)	Settling B Evaporation Volume (cu ft)	Settling B Evaporation (Gallons)	Total Evaporation (Gallons)	
12/1/2014	0.08	0.056	60.32	451.23	38.77	290.01	140.00	1047.34	163.33	1221.90	3010.47	
12/2/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86	
12/3/2014	0.02	0.014	15.08	112.81	9.69	72.50	35.00	261.84	40.83	305.47	752.62	
12/4/2014	0.02	0.014	15.08	112.81	9.69	72.50	35.00	261.84	40.83	305.47	752.62	
12/5/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86	
12/6/2014	0.04	0.028	30.16	225.61	19.38	145.00	70.00	523.67	81.67	610.95	1505.24	
12/7/2014	0.02	0.014	15.08	112.81	9.69	72.50	35.00	261.84	40.83	305.47	752.62	
12/8/2014	0.05	0.035	37.70	282.02	24.23	181.26	87.50	654.59	102.08	763.69	1881.55	
12/9/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86	
12/10/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86	
12/11/2014	0.04	0.028	30.16	225.61	19.38	145.00	70.00	523.67	81.67	610.95	1505.24	
12/12/2014	0.02	0.014	15.08	112.81	9.69	72.50	35.00	261.84	40.83	305.47	752.62	
12/13/2014	0.03	0.021	22.62	169.21	14.54	108.75	52.50	392.75	61.25	458.21	1128.93	
12/14/2014	0.03	0.021	22.62	169.21	14.54	108.75	52.50	392.75	61.25	458.21	1128.93	
12/15/2014	0.11	0.077	82.94	620.44	53.30	398.76	192.50	1440.09	224.58	1680.11	4139.40	
12/16/2014	0.08	0.056	60.32	451.23	38.77	290.01	140.00	1047.34	163.33	1221.90	3010.47	
12/17/2014	0.02	0.014	15.08	112.81	9.69	72.50	35.00	261.84	40.83	305.47	752.62	
12/18/2014	0.02	0.014	15.08	112.81	9.69	72.50	35.00	261.84	40.83	305.47	752.62	
12/19/2014	0.02	0.014	15.08	112.81	9.69	72.50	35.00	261.84	40.83	305.47	752.62	
12/20/2014	0.03	0.021	22.62	169.21	14.54	108.75	52.50	392.75	61.25	458.21	1128.93	
12/21/2014	0.03	0.021	22.62	169.21	14.54	108.75	52.50	392.75	61.25	458.21	1128.93	
12/22/2014	0.08	0.056	60.32	451.23	38.77	290.01	140.00	1047.34	163.33	1221.90	3010.47	
12/23/2014	0.10	0.07	75.40	564.04	48.46	362.51	175.00	1309.18	204.17	1527.37	3763.09	
12/24/2014	0.07	0.049	52.78	394.83	33.92	253.76	122.50	916.42	142.92	1069.16	2634.16	
12/25/2014	0.15	0.105	113.09	846.05	72.69	543.77	262.50	1963.76	306.25	2291.06	5644.64	
12/26/2014	0.03	0.021	22.62	169.21	14.54	108.75	52.50	392.75	61.25	458.21	1128.93	
12/27/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86	
12/28/2014	0.05	0.035	37.70	282.02	24.23	181.26	87.50	654.59	102.08	763.69	1881.55	
12/29/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86	
12/30/2014	0.06	0.042	45.24	338.42	29.07	217.51	105.00	785.51	122.50	916.42	2257.86	
12/31/2014	0.05	0.035	37.70	282.02	24.23	181.26	87.50	654.59	102.08	763.69	1881.55	
<b>Monthly Totals</b>			<b>1213.87</b>	<b>9080.98</b>	<b>780.17</b>	<b>5836.42</b>	<b>2817.50</b>	<b>21077.72</b>	<b>3287.08</b>	<b>24590.67</b>	<b>60585.79</b>	
<b>Quarterly Total</b>			7878.86	58941.79	5063.81	37882.35	18287.50	136808.79	21335.42	159610.25	393243.18	






Mesonet | Seasonal Single Site E1 Table

2014-11-12	0.07	0.11	0.06	0.04	0.11
2014-11-11	0.14	0.22	0.13	0.09	0.20
2014-11-10	0.18	0.28	0.17	0.11	0.27
2014-11-09	0.11	0.16	0.10	0.07	0.14
2014-11-08	0.12	0.19	0.11	0.08	0.17
2014-11-07	0.10	0.14	0.09	0.06	0.12
2014-11-06	0.11	0.17	0.10	0.07	0.15
2014-11-05	0.05	0.06	0.04	0.03	0.06
2014-11-04	0.06	0.09	0.05	0.04	0.07
2014-11-03	0.10	0.15	0.09	0.06	0.13
2014-11-02	0.11	0.17	0.10	0.07	0.15
2014-11-01	0.10	0.15	0.09	0.06	0.13
2014-10-31	0.12	0.18	0.11	0.07	0.16
2014-10-30	0.11	0.16	0.11	0.07	0.14
2014-10-29	0.11	0.15	0.10	0.07	0.14
2014-10-28	0.18	0.27	0.17	0.11	0.25
2014-10-27	0.18	0.27	0.16	0.11	0.25
2014-10-26	0.16	0.24	0.15	0.10	0.21
2014-10-25	0.12	0.16	0.11	0.08	0.15
2014-10-24	0.12	0.16	0.11	0.07	0.15
2014-10-23	0.10	0.13	0.09	0.06	0.12
2014-10-22	0.10	0.12	0.09	0.06	0.12
2014-10-21	0.11	0.13	0.10	0.07	0.13
2014-10-20	0.10	0.12	0.09	0.06	0.12
2014-10-19	0.10	0.13	0.10	0.06	0.13
2014-10-18	0.15	0.22	0.14	0.10	0.21
2014-10-17	0.15	0.21	0.14	0.09	0.19
2014-10-16	0.16	0.22	0.15	0.10	0.20
2014-10-15	0.11	0.14	0.11	0.07	0.14
2014-10-14	0.17	0.24	0.15	0.10	0.23
2014-10-13	0.08	0.12	0.08	0.05	0.11
2014-10-12	0.13	0.17	0.12	0.08	0.16
2014-10-11	0.04	0.06	0.04	0.03	0.06
2014-10-10	0.17	0.25	0.16	0.11	0.23
2014-10-09	0.17	0.24	0.16	0.11	0.22
2014-10-08	0.15	0.20	0.14	0.09	0.19
2014-10-07	0.18	0.23	0.16	0.11	0.22
2014-10-06	0.14	0.18	0.13	0.09	0.17
2014-10-05	0.13	0.17	0.12	0.08	0.16
2014-10-04	0.14	0.18	0.13	0.09	0.17
2014-10-03	0.15	0.20	0.14	0.09	0.19
2014-10-02	0.14	0.21	0.13	0.09	0.19
2014-10-01	0.18	0.25	0.17	0.11	0.24
2014-09-30	0.16	0.20	0.14	0.10	0.19
2014-09-29	0.15	0.18	0.14	0.09	0.18
2014-09-28	0.12	0.15	0.11	0.08	0.15
2014-09-27	0.15	0.19	0.14	0.09	0.18
2014-09-26	0.14	0.17	0.13	0.09	0.17
2014-09-25	0.15	0.18	0.14	0.09	0.18

*Pan  
Evaporation*

*4<sup>th</sup>  
Qtr*

*4<sup>th</sup>  
Qtr*





Mesonet | Seasonal Single Site ET Table

2014-12-31	0.03	0.05	0.03	0.02	0.05
2014-12-30	0.05	0.07	0.04	0.03	0.06
2014-12-29	0.05	0.07	0.04	0.03	0.06
2014-12-28	0.04	0.05	0.04	0.02	0.05
2014-12-27	0.04	0.06	0.04	0.03	0.06
2014-12-26	0.03	0.03	0.02	0.02	0.03
2014-12-25	0.11	0.17	0.10	0.07	0.15
2014-12-24	0.06	0.09	0.05	0.04	0.07
2014-12-23	0.08	0.12	0.07	0.05	0.10
2014-12-22	0.06	0.09	0.06	0.04	0.08
2014-12-21	0.02	0.03	0.02	0.01	0.03
2014-12-20	0.02	0.03	0.02	0.01	0.03
2014-12-19	0.02	0.02	0.02	0.01	0.02
2014-12-18	0.01	0.01	0.01	0.01	0.02
2014-12-17	0.01	0.01	0.01	0.01	0.02
2014-12-16	0.06	0.09	0.06	0.04	0.08
2014-12-15	0.08	0.13	0.08	0.05	0.11
2014-12-14	0.02	0.03	0.02	0.01	0.03
2014-12-13	0.03	0.03	0.03	0.02	0.03
2014-12-12	0.02	0.02	0.01	0.01	0.02
2014-12-11	0.04	0.05	0.03	0.02	0.04
2014-12-10	0.05	0.08	0.05	0.03	0.06
2014-12-09	0.05	0.07	0.05	0.03	0.06
2014-12-08	0.04	0.05	0.04	0.02	0.05
2014-12-07	0.02	0.02	0.02	0.01	0.02
2014-12-06	0.03	0.04	0.03	0.02	0.04
2014-12-05	0.05	0.06	0.04	0.03	0.06
2014-12-04	0.02	0.02	0.02	0.01	0.02
2014-12-03	0.02	0.02	0.02	0.01	0.02
2014-12-02	0.04	0.07	0.04	0.03	0.06
2014-12-01	0.06	0.09	0.06	0.04	0.08
2014-11-30	0.12	0.19	0.11	0.07	0.17
2014-11-29	0.16	0.25	0.14	0.10	0.22
2014-11-28	0.10	0.16	0.10	0.06	0.14
2014-11-27	0.06	0.10	0.06	0.04	0.08
2014-11-26	0.09	0.14	0.08	0.05	0.12
2014-11-25	0.06	0.08	0.05	0.03	0.07
2014-11-24	0.09	0.14	0.08	0.06	0.12
2014-11-23	0.11	0.17	0.10	0.07	0.15
2014-11-22	0.02	0.03	0.02	0.01	0.03
2014-11-21	0.02	0.02	0.02	0.01	0.02
2014-11-20	0.08	0.12	0.07	0.05	0.10
2014-11-19	0.09	0.14	0.08	0.05	0.12
2014-11-18	0.07	0.11	0.07	0.05	0.10
2014-11-17	0.05	0.08	0.05	0.03	0.07
2014-11-16	0.03	0.04	0.02	0.02	0.03
2014-11-15	0.06	0.09	0.06	0.04	0.08
2014-11-14	0.04	0.06	0.04	0.03	0.06
2014-11-13	0.07	0.12	0.07	0.05	0.11

*Pan  
Evaporation*

*H<sub>0</sub>  
P<sub>0</sub>*



**MILL CREEK DOLOMITE WATER USAGE LOG**  
4th QUARTER 2014

4th QUARTER 2014						
DATE	RAINFALL	Water Truck Hours			Calculated	
		START	END	MILES	Loads	Loads
10/1/2014						
10/2/2014						
10/3/2014	0.5					
10/4/2014						
10/5/2014						
10/6/2014						
10/7/2014						
10/8/2014						
10/9/2014						
10/10/2014	1.0					
10/11/2014						
10/12/2014						
10/13/2014	1.75					
10/14/2014						
10/15/2014						
10/16/2014						
10/17/2014						
10/18/2014						
10/19/2014						
10/20/2014						
10/21/2014						
10/22/2014						
10/23/2014						
10/24/2014						
10/25/2014						
10/26/2014						
10/27/2014						
10/28/2014						
10/29/2014		70326	70392		66	8.25
10/30/2014		70392	70399		7	0.88
10/31/2014						
11/1/2014						
11/2/2014						
11/3/2014						
11/4/2014						

Water Truck Summary		
Loads	Gallons	
1	4,500	
4th Quarter totals	23.13	104063

WELL			
DATE	WK	PU - 21	
		Meter Reading	Ag Lime HRS. RAN
10/7/14	40	11027	0.0
10/14/14	41	11027	0.0
10/21/14	42	11027	0.0
10/28/14	43	11027	0.0
11/4/14	44	11027	0.0
11/11/14	45	11027	0.0
11/18/14	46	11027	0.0
11/25/14	47	11027	0.0
12/2/14	48	11027	0.0
12/9/14	49	11027	0.0
12/16/14	50	11027	0.0
12/23/14	51	11027	0.0
12/30/14	52	11027	0.0
4th Quarter Total			0.0
Total gallons ( @ 476.47/hr)			0

4th QUARTER TOTAL GROUNDWATER USEAGE (gallons) 104063









4th Qtr Water Trk Hours page 3

Wednesday	12/17/2014								
Thursday	12/18/2014	0.7							
Friday	12/19/2014								
Saturday	12/20/2014								
Sunday	12/21/2014								
Monday	12/22/2014	0.5							
Tuesday	12/23/2014								
Wednesday	12/24/2014								
Thursday	12/25/2014								
Friday	12/26/2014								
Saturday	12/27/2014								
Sunday	12/28/2014								
Monday	12/29/2014								
Tuesday	12/30/2014								
Wednesday	12/31/2014						0	0.00	
<b>Totals</b>		9.4					185.0	23.1	

