

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

12/10/2014

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, 3rd 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 third 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, 3rd Quarter 2014

CONSUMPTIVE USE REPORT
3rd QUARTER, 2014
MILL CREEK DOLOMITE, LLC
MILL CREEK MINE & MILL

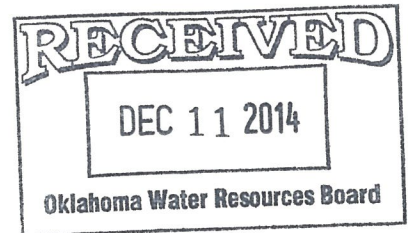


TABLE 1: Estimated Consumptive Use of Pit Water

PIT GROUNDWATER VOLUME		VALUES (Gal)
1	Total volume of water pumped from the producing mine pit (s)	12,527,357
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	114,495
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	114,495
6	Pit Ground Water Volume (Line 1 minus Line 5)	12,412,862
DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	268,024
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)	848,577
10	Volume of pit water groundwater that is used for other beneficial uses off the mine site	153,880
11	Defined Elements of Consumptive Use of Pit Groundwater (Add Lines 7 through 10)	1,270,481
PIT GROUNDWATER BALANCE		
12	Line 6 minus Line 11	11,142,381
13	Groundwater Augmentation: Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management Plan	
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	
15	Precipitation & Run-off Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation	
16	Recycled Pit Groundwater Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)	
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)	
18	Add lines 13 through 17	0
19	Other Consumptive Use (adjusted) (Line 12 minus Line 18)	11,142,381
TOTAL REPORTED CONSUMPTIVE USE OF PIT WATER		
20	Total Net Reported Consumptive Use: (Line 11 plus Line 19)	12,412,862

PIT WATER MONITORING DATA																			
MILL CREEK DOLOMITE, LLC																			
SUMP SURFACE AREA DATA:																			
SUMP A (sq ft)				SUMP B (sq ft)				8307				200							
PUMP A (GPM)				PUMP B (GPM)				300											
				PU-19	QA	Meter Reading	HRS. RAN	PU-18	QB	PIT WATER PUMPED			PIT RAIN WATER						
DATE	WK	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	0	0	0	0	
1/13/14	2	1415	73.0	12454	46.0	187714	78857	266571	0.4	431	3223	277	2071	5295	3223	277	2071	5295	
1/20/14	3	1490	75.0	12456	2.0	192857	3429	196286	0.0	0	0	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	0	0	0	0	
Monthly Totals			456.0		184.0	9087429	2444571	11532000	0.4	431	3223	277	2071	5295	3223	277	2071	5295	
2/3/14	5	1660	90.0	12525	67.0	231429	114857	346286	0.45	485	3626	312	2330	5956	3626	312	2330	5956	
2/10/14	6	1723	63.0	12613	88.0	162000	150857	312857	0.65	700	5237	450	3366	8604	5237	450	3366	8604	
2/17/14	7	1751	28.0	12690	77.0	72000	132000	204000	0	0	0	0	0	0	0	0	0	0	
2/24/14	8	1760	9.0	12715	25.0	23143	42857	66000	0.05	54	403	35	259	662	403	35	259	662	
Monthly Totals			190.0		257.0	3420000	3084000	6504000	1.15	1239	9266	796	5956	15222	9266	796	5956	15222	
3/3/14	9	1772	12.0	12725	10.0	30857	17143	48000	0	0	0	0	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	0	0	0	0	
3/17/14	11	1821	37.0	12781	0.0	95143	0	95143	1.7	1831	13698	1177	8804	22502	13698	1177	8804	22502	
3/24/14	12	1851	30.0	12891	110.0	77143	188571	265714	0	0	0	0	0	0	0	0	0	0	
Monthly Totals			91.0		176.0	1813500	2338286	4151786	1.7	1831	13698	1177	8804	22502	13698	1177	8804	22502	
1st QUARTER TOTALS					737.0		617.0	14320929	7866857	22187786	3.25	3500.52	26187.40	2249.81	16830.85	26187.40	2249.81	16830.85	43018
3/31/14	13	1877	26.0	12891	0.0	66857	0	66857	0	0	0	0	0	0	0	0	0	0	
4/7/14	14	1898	21.0	12918	27.0	54000	46286	100286	0.2	215	1612	138	1036	2647	1612	138	1036	2647	
4/14/14	15	1915	17.0	12918	0.0	43714	0	43714	0	0	0	0	0	0	0	0	0	0	
4/21/14	16	1936	21.0	12918	0.0	54000	0	54000	0.6	646	4835	415	3107	7942	4835	415	3107	7942	
4/28/14	17	1970	34.0	12970	52.0	87429	89143	176571	0	0	0	0	0	0	0	0	0	0	
Monthly Totals			119.0		79.0	2295000	1015714	3310714	0.8	862	6446	554	4143	10589	6446	554	4143	10589	
5/5/14	18	1976	6.0	12974	4.0	15429	6857	22286	0	0	0	0	0	0	0	0	0	0	
5/12/14	19	1994	18.0	12974	0.0	46286	0	46286	1.6	1723	12892	1108	8286	21178	12892	1108	8286	21178	
5/19/14	20	2020	26.0	12978	4.0	66857	6857	73714	0	0	0	0	0	0	0	0	0	0	
5/26/14	21	2065	45.0	12986	8.0	115714	13714	129429	2.1	2262	16921	1454	10875	27796	16921	1454	10875	27796	
Monthly Totals			95.0		16.0	1893214	212571	2105786	3.7	3985	29813	2561	19161	48975	29813	2561	19161	48975	
6/2/14	22	2090	25.0	12986	0.0	64286	0	64286	4.0	4308	32231	2769	20715	52946	32231	2769	20715	52946	
6/9/14	23	2121	31.0	12986	0.0	79714	0	79714	1.5	1616	12086	1038	7768	19855	12086	1038	7768	19855	
6/16/14	24	2289	168.0	12986	0.0	432000	0	432000	2.0	2154	16115	1385	10357	26473	16115	1385	10357	26473	
6/23/14	25	2368	79.0	13326	340.0	203143	582857	786000	1.0	1077	8058	692	5179	13236	8058	692	5179	13236	
Monthly Totals			303.0		340.0	5843571	4371429	10215000	8.5	9155	68490	5884	44019	112509	68490	5884	44019	112509	
2nd QUARTER TOTALS					517.0		435.0	10031786	5599714	15631500	13.00	14002.08	104749.59	8999.25	67323.39	104749.59	8999.25	67323.39	172073
6/30/14	26	2398	30.0	13353	27.0	77143	46286	123429	2.6	2800	20950	1800	13465	34415	20950	1800	13465	34415	

[illegible]

QUARRY DEWATER & CREEK MAKE-UP WATER

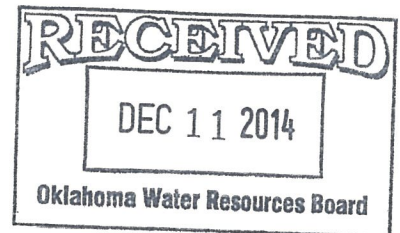
DATE	WK	PU-19 QA		PU-18 QB		PU-04 Big		PU-03 Little		PU-21 AG-Lime	
		65HP Meter Reading	HRS. RAN	35HP Meter Reading	HRS. RAN	Meter	Hrs. Ran	Meter	Hrs.	Meter	Hrs.
7/1/14	26	2398.0	30.0	367.0	27.0	3043.0	0.0	1279.0	0.0	10998.0	0.0
7/7/14	27	2436.0	38.0	367.0	0.0	3043.0	0.0	1279.0	0.0	10998.0	0.0
7/14/14	28	2460.0	24.0	376.0	9.0	3045.0	2.0	1279.0	0.0	10998.0	0.0
7/21/14	29	2510.0	50.0	468.0	92.0	3045.0	0.0	1279.0	0.0	10998.0	0.0
7/31/14	30	2570.0	60.0	500.0	32.0	3082.0	37.0	1279.0	0.0	10998.0	0.0
			202.0		160.0		39.0		0.0		0.0
8/4/14	31	2590.0	20.0	526.0	26.0	3082.0	0.0	1279.0	0.0	10998.0	0.0
8/11/14	32	2612.0	22.0	526.0	0.0	3082.0	0.0	1279.0	0.0	10998.0	0.0
8/18/14	33	2646.0	34.0	598.0	72.0	3115.0	33.0	1279.0	0.0	11027.0	29.0
8/31/14	34	2683.0	37.0	598.0	0.0	3115.0	0.0	1279.0	0.0	11027.0	0.0
			113.0		98.0		33.0		0.0		29.0
9/7/14	35	2700.0	17.0	599.0	1.0	3160.0	45.0	1279.0	0.0	11027.0	0.0
9/15/14	36	2728.0	28.0	599.0	0.0	3210.0	50.0	1279.0	0.0	11027.0	0.0
9/22/14	37	2760.0	32.0	599.0	0.0	3288.0	78.0	1279.0	0.0	11027.0	0.0
9/30/14	38	2804.0	44.0	636.0	37.0	3288.0	0.0	1279.0	0.0	11027.0	0.0
			121.0		38.0		173.0		0.0		0.0

JULY	AMOUNT	COMMENTS	MONTH	YTD 2014	2013
1-Jul					
2-Jul	2.6				
3-Jul					
4-Jul					
5-Jul					
6-Jul					
7-Jul					
8-Jul					
9-Jul					
10-Jul					
11-Jul					
12-Jul					
13-Jul					
14-Jul					
15-Jul					
16-Jul					
17-Jul	1.6				
18-Jul					
19-Jul					
20-Jul					
21-Jul					
22-Jul					
23-Jul					
24-Jul					
25-Jul					
26-Jul					
27-Jul					
28-Jul					
29-Jul					
30-Jul	0.8				
31-Jul	0.3				

3rd Qtr

AUGUST	AMOUNT	COMMENTS	MONTH	YTD 2014	2013
1-Aug					
2-Aug					
3-Aug					
4-Aug					
5-Aug					
6-Aug					
7-Aug	0.3				
8-Aug					
9-Aug					
10-Aug					
11-Aug	1.25				
12-Aug					
13-Aug					
14-Aug					
15-Aug					
16-Aug					
17-Aug					
18-Aug					
19-Aug					
20-Aug					
21-Aug					
22-Aug					
23-Aug					
24-Aug					
25-Aug					
26-Aug					
27-Aug					
28-Aug					
29-Aug					
30-Aug					
31-Aug					

5.3 20.4 19.1
1.55 21.95 20.2



	AMOUNT	COMMENTS	MONTH	YTD 2014	2013
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					
19-Sep					
20-Sep					
21-Sep					
22-Sep					
23-Sep					
24-Sep					
25-Sep					
26-Sep					
27-Sep					
28-Sep					
29-Sep					
30-Sep					

3rd Qtr



	0		21.95	21.5
AMOUNT	MONTH	COMMENTS	YTD 2014	2013

OCTOBER		
1-Oct		
2-Oct		
3-Oct		
4-Oct		
5-Oct		
6-Oct		
7-Oct		
8-Oct		
9-Oct		
10-Oct		
11-Oct		
12-Oct		
13-Oct		
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		

	0		21.95	24.1
AMOUNT	MONTH	COMMENTS	YTD 2014	2013

NOVEMBER		
1-Nov		
2-Nov		

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>
July	11,960	2.5
August	21,280	2.5
September	14,063	2.0
Total	47,303	

Calculations for gallons of water shipped to the Plant:

$11,960 \times .025 = 299$ tons or 598,000 lbs

$21,280 \times .025 = 532$ tons or 1,064,000 lbs

$14,063 \times .020 = 281.3$ tons or 562,600 lbs

Total lbs. = 2,286,220 lbs

Gallons = $2,224,600 \text{ lbs} \times 1 \text{ gal}/8.3 \text{ lbs} = 268,024$ 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		11,960	12,780	13,038	9,795	244	14,416
August	43,338		21,280	21,344	15,749	12,820	1,257	15,379
September	0		14,063	14,953	12,477	9,840	717	18,053
October								
November								
December								
Totals	176,772	0	150,258	149,121	128,038	98,805	19,489	138,729
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	47,303	49,077	41,264	32,455	2,218	47,848

PIT WATER MONITORING DATA
MILL CREEK DOLOMITE, LLC

EVAPORATION

July, 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)
7/1/2014	0.28	0.196	211.11	1579.30	135.68	1015.03	490.00	3665.69	571.67	4276.64	10536.66
7/2/2014	0.18	0.126	135.71	1015.27	87.22	652.52	315.00	2356.52	367.50	2749.27	6773.57
7/3/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
7/4/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
7/5/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
7/6/2014	0.32	0.224	241.27	1804.92	155.06	1160.03	560.00	4189.36	653.33	4887.59	12041.90
7/7/2014	0.34	0.238	256.35	1917.72	164.76	1232.54	595.00	4451.20	694.17	5193.06	12794.51
7/8/2014	0.34	0.238	256.35	1917.72	164.76	1232.54	595.00	4451.20	694.17	5193.06	12794.51
7/9/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
7/10/2014	0.33	0.231	248.81	1861.32	159.91	1196.28	577.50	4320.28	673.75	5040.32	12418.21
7/11/2014	0.36	0.252	271.43	2030.53	174.45	1305.04	630.00	4713.03	735.00	5498.54	13547.13
7/12/2014	0.35	0.245	263.89	1974.13	169.60	1268.79	612.50	4582.11	714.58	5345.80	13170.82
7/13/2014	0.34	0.238	256.35	1917.72	164.76	1232.54	595.00	4451.20	694.17	5193.06	12794.51
7/14/2014	0.17	0.119	128.17	958.86	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26
7/15/2014	0.34	0.238	256.35	1917.72	164.76	1232.54	595.00	4451.20	694.17	5193.06	12794.51
7/16/2014	0.17	0.119	128.17	958.86	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26
7/17/2014	0.04	0.028	30.16	225.61	19.38	145.00	70.00	523.67	81.67	610.95	1505.24
7/18/2014	0.10	0.07	75.40	564.04	48.46	362.51	175.00	1309.18	204.17	1527.37	3763.09
7/19/2014	0.14	0.098	105.55	789.65	67.84	507.51	245.00	1832.85	285.83	2138.32	5268.33
7/20/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
7/21/2014	0.28	0.196	211.11	1579.30	135.68	1015.03	490.00	3665.69	571.67	4276.64	10536.66
7/22/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
7/23/2014	0.23	0.161	173.41	1297.28	111.45	833.77	402.50	3011.10	469.58	3512.95	8655.11
7/24/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
7/25/2014	0.32	0.224	241.27	1804.92	155.06	1160.03	560.00	4189.36	653.33	4887.59	12041.90
7/26/2014	0.33	0.231	248.81	1861.32	159.91	1196.28	577.50	4320.28	673.75	5040.32	12418.21
7/27/2014	0.32	0.224	241.27	1804.92	155.06	1160.03	560.00	4189.36	653.33	4887.59	12041.90
7/28/2014	0.26	0.182	196.03	1466.49	125.99	942.53	455.00	3403.86	530.83	3971.16	9784.04
7/29/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
7/30/2014	0.07	0.049	52.78	394.83	33.92	253.76	122.50	916.42	142.92	1069.16	2634.16
7/31/2014	0.07	0.049	52.78	394.83	33.92	253.76	122.50	916.42	142.92	1069.16	2634.16
Monthly Totals			5790.40	43317.98	3721.54	27840.81	13440.00	100544.64	15680.00	117302.08	289005.51

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

August, 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)
8/1/2014	0.16	0.112	120.63	902.46	77.53	580.02	280.00	2094.68	326.67	2443.79	6020.95
8/2/2014	0.23	0.161	173.41	1297.28	111.45	833.77	402.50	3011.10	469.58	3512.95	8655.11
8/3/2014	0.25	0.175	188.49	1410.09	121.14	906.28	437.50	3272.94	510.42	3818.43	9407.73
8/4/2014	0.25	0.175	188.49	1410.09	121.14	906.28	437.50	3272.94	510.42	3818.43	9407.73
8/5/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
8/6/2014	0.29	0.203	218.65	1635.71	140.53	1051.28	507.50	3796.61	592.08	4429.38	10912.97
8/7/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
8/8/2014	0.23	0.161	173.41	1297.28	111.45	833.77	402.50	3011.10	469.58	3512.95	8655.11
8/9/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
8/10/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
8/11/2014	0.29	0.203	218.65	1635.71	140.53	1051.28	507.50	3796.61	592.08	4429.38	10912.97
8/12/2014	0.31	0.217	233.73	1748.51	150.22	1123.78	542.50	4058.44	632.92	4734.85	11665.59
8/13/2014	0.25	0.175	188.49	1410.09	121.14	906.28	437.50	3272.94	510.42	3818.43	9407.73
8/14/2014	0.27	0.189	203.57	1522.90	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
8/15/2014	0.31	0.217	233.73	1748.51	150.22	1123.78	542.50	4058.44	632.92	4734.85	11665.59
8/16/2014	0.21	0.147	158.33	1184.48	101.76	761.27	367.50	2749.27	428.75	3207.48	7902.49
8/17/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
8/18/2014	0.30	0.21	226.19	1692.11	145.37	1087.53	525.00	3927.53	612.50	4582.11	11289.28
8/19/2014	0.29	0.203	218.65	1635.71	140.53	1051.28	507.50	3796.61	592.08	4429.38	10912.97
8/20/2014	0.34	0.238	256.35	1917.72	164.76	1232.54	595.00	4451.20	694.17	5193.06	12794.51
8/21/2014	0.39	0.273	294.04	2199.74	188.98	1413.79	682.50	5105.78	796.25	5956.75	14676.06
8/22/2014	0.39	0.273	294.04	2199.74	188.98	1413.79	682.50	5105.78	796.25	5956.75	14676.06
8/23/2014	0.37	0.259	278.96	2086.93	179.29	1341.29	647.50	4843.95	755.42	5651.27	13923.44
8/24/2014	0.33	0.231	248.81	1861.32	159.91	1196.28	577.50	4320.28	673.75	5040.32	12418.21
8/25/2014	0.30	0.21	226.19	1692.11	145.37	1087.53	525.00	3927.53	612.50	4582.11	11289.28
8/26/2014	0.29	0.203	218.65	1635.71	140.53	1051.28	507.50	3796.61	592.08	4429.38	10912.97
8/27/2014	0.26	0.182	196.03	1466.49	125.99	942.53	455.00	3403.86	530.83	3971.16	9784.04
8/28/2014	0.29	0.203	218.65	1635.71	140.53	1051.28	507.50	3796.61	592.08	4429.38	10912.97
8/29/2014	0.22	0.154	165.87	1240.88	106.61	797.52	385.00	2880.19	449.17	3360.22	8278.80
8/30/2014	0.24	0.168	180.95	1353.69	116.30	870.03	420.00	3142.02	490.00	3665.69	9031.42
8/31/2014	0.33	0.231	248.81	1861.32	159.91	1196.28	577.50	4320.28	673.75	5040.32	12418.21
Monthly Totals			6484.04	48507.12	4167.35	31175.91	15050.00	112589.05	17558.33	131353.89	323625.97

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

September, 2014		Corrected	Sump A	Sump B	Settling A	Settling B	Settling A	Settling B	Settling B	Total
Date	Pan Evaporation (in)	Evaporation Rate (in)	Evaporation Volume (cu ft)	Evaporation Volume (cu ft)	Evaporation Volume (cu ft)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation Volume (cu ft)	Evaporation (Gallons)	Evaporation (Gallons)
9/1/2014	0.44	0.308	331.74	213.21	1595.05	770.00	5760.37	898.33	6720.43	16557.61
9/2/2014	0.31	0.217	233.73	150.22	1123.78	542.50	4058.44	632.92	4734.85	11665.59
9/3/2014	0.35	0.245	263.89	169.60	1268.79	612.50	4582.11	714.58	5345.80	13170.82
9/4/2014	0.38	0.266	286.50	184.14	1377.54	665.00	4974.87	775.83	5804.01	14299.75
9/5/2014	0.28	0.196	211.11	135.68	1015.03	490.00	3665.69	571.67	4276.64	10536.66
9/6/2014	0.19	0.133	143.25	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
9/7/2014	0.13	0.091	98.01	62.99	471.26	227.50	1701.93	265.42	1985.58	4892.02
9/8/2014	0.17	0.119	128.17	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26
9/9/2014	0.32	0.224	241.27	155.06	1160.03	560.00	4189.36	653.33	4887.59	12041.90
9/10/2014	0.39	0.273	294.04	188.98	1413.79	682.50	5105.78	796.25	5956.75	14676.06
9/11/2014	0.12	0.084	90.48	58.15	435.01	210.00	1571.01	245.00	1832.85	4515.71
9/12/2014	0.08	0.056	60.32	38.77	290.01	140.00	1047.34	163.33	1221.90	3010.47
9/13/2014	0.16	0.112	120.63	77.53	580.02	280.00	2094.68	326.67	2443.79	6020.95
9/14/2014	0.11	0.077	82.94	53.30	398.76	192.50	1440.09	224.58	1680.11	4139.40
9/15/2014	0.11	0.077	82.94	53.30	398.76	192.50	1440.09	224.58	1680.11	4139.40
9/16/2014	0.18	0.126	135.71	87.22	652.52	315.00	2356.52	367.50	2749.27	6773.57
9/17/2014	0.19	0.133	143.25	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
9/18/2014	0.10	0.07	75.40	48.46	362.51	175.00	1309.18	204.17	1527.37	3763.09
9/19/2014	0.16	0.112	120.63	77.53	580.02	280.00	2094.68	326.67	2443.79	6020.95
9/20/2014	0.20	0.14	150.79	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19
9/21/2014	0.19	0.133	143.25	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
9/22/2014	0.27	0.189	203.57	130.84	978.78	472.50	3534.77	551.25	4123.90	10160.35
9/23/2014	0.20	0.14	150.79	96.92	725.02	350.00	2618.35	408.33	3054.74	7526.19
9/24/2014	0.19	0.133	143.25	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
9/25/2014	0.18	0.126	135.71	87.22	652.52	315.00	2356.52	367.50	2749.27	6773.57
9/26/2014	0.17	0.119	128.17	82.38	616.27	297.50	2225.60	347.08	2596.53	6397.26
9/27/2014	0.18	0.126	135.71	87.22	652.52	315.00	2356.52	367.50	2749.27	6773.57
9/28/2014	0.15	0.105	113.09	72.69	543.77	262.50	1963.76	306.25	2291.06	5644.64
9/29/2014	0.18	0.126	135.71	87.22	652.52	315.00	2356.52	367.50	2749.27	6773.57
9/30/2014	0.19	0.133	143.25	92.07	688.77	332.50	2487.43	387.92	2902.00	7149.88
Monthly Totals			4727.32	3038.29	22729.41	10972.50	82085.27	12801.25	95766.15	235945.91
Quarterly Total			17001.76	10927.17	81746.13	39462.50	295218.96	46039.58	344422.12	848577.39

Mesonet | Seasonal Single Site ET Table

2014-07-01	0.22	0.27	0.21	0.14	0.28
2014-06-30	0.33	0.44	0.31	0.20	0.47
2014-06-29	0.27	0.35	0.25	0.17	0.37
2014-06-28	0.17	0.23	0.16	0.10	0.22
2014-06-27	0.20	0.27	0.19	0.13	0.28
2014-06-26	0.16	0.21	0.15	0.10	0.21
2014-06-25	0.16	0.19	0.15	0.10	0.20
2014-06-24	0.20	0.22	0.19	0.12	0.24
2014-06-23	0.16	0.19	0.15	0.10	0.20
2014-06-22	0.22	0.26	0.21	0.14	0.28
2014-06-21	0.19	0.22	0.18	0.12	0.23
2014-06-20	0.19	0.22	0.17	0.12	0.23
2014-06-19	0.15	0.19	0.14	0.09	0.19
2014-06-18	0.25	0.33	0.23	0.15	0.34
2014-06-17	0.28	0.37	0.26	0.17	0.39
2014-06-16	0.28	0.36	0.26	0.17	0.38
2014-06-15	0.26	0.34	0.24	0.16	0.35
2014-06-14	0.23	0.30	0.21	0.14	0.31
2014-06-13	0.24	0.28	0.22	0.15	0.30
2014-06-12	0.16	0.20	0.15	0.10	0.20
2014-06-11	0.24	0.28	0.22	0.15	0.30
2014-06-10	0.21	0.26	0.20	0.13	0.28
2014-06-09	0.18	0.22	0.16	0.11	0.23
2014-06-08	0.15	0.18	0.14	0.09	0.19
2014-06-07	0.24	0.30	0.22	0.15	0.31
2014-06-06	0.14	0.17	0.13	0.09	0.17
2014-06-05	0.24	0.30	0.22	0.15	0.31
2014-06-04	0.29	0.37	0.27	0.18	0.39
2014-06-03	0.27	0.33	0.25	0.16	0.35
2014-06-02	0.25	0.31	0.23	0.15	0.32
2014-06-01	0.21	0.26	0.20	0.13	0.27
2014-05-31	0.17	0.20	0.16	0.10	0.20
2014-05-30	0.15	0.18	0.14	0.09	0.18
2014-05-29	0.23	0.27	0.21	0.14	0.28
2014-05-28	0.15	0.18	0.14	0.09	0.19
2014-05-27	0.10	0.12	0.10	0.06	0.12
2014-05-26	0.13	0.16	0.12	0.08	0.17
2014-05-25	0.19	0.25	0.18	0.12	0.25
2014-05-24	0.17	0.21	0.16	0.11	0.22
2014-05-23	0.17	0.22	0.16	0.11	0.22
2014-05-22	0.23	0.29	0.22	0.15	0.30
2014-05-21	0.25	0.33	0.23	0.16	0.34
2014-05-20	0.28	0.39	0.26	0.18	0.41
2014-05-19	0.25	0.33	0.23	0.15	0.36
2014-05-18	0.17	0.23	0.16	0.11	0.22
2014-05-17	0.17	0.22	0.15	0.10	0.22
2014-05-16	0.19	0.23	0.18	0.12	0.24
2014-05-15	0.18	0.23	0.17	0.11	0.23
2014-05-14	0.17	0.21	0.15	0.10	0.21

Pan Evaporation ①
3rd PTr ↑

Mesonet | Seasonal Single Site ET Table

2014-08-19	0.23	0.28	0.22	0.14	0.29
2014-08-18	0.24	0.30	0.22	0.15	0.30
2014-08-17	0.18	0.23	0.16	0.11	0.22
2014-08-16	0.16	0.21	0.15	0.10	0.21
2014-08-15	0.24	0.30	0.22	0.15	0.31
2014-08-14	0.22	0.26	0.20	0.13	0.27
2014-08-13	0.20	0.23	0.19	0.13	0.25
2014-08-12	0.24	0.30	0.22	0.15	0.31
2014-08-11	0.23	0.27	0.21	0.14	0.29
2014-08-10	0.20	0.23	0.19	0.13	0.24
2014-08-09	0.22	0.27	0.21	0.14	0.27
2014-08-08	0.19	0.22	0.18	0.12	0.23
2014-08-07	0.20	0.24	0.18	0.12	0.24
2014-08-06	0.23	0.28	0.21	0.14	0.29
2014-08-05	0.20	0.23	0.19	0.13	0.24
2014-08-04	0.20	0.22	0.19	0.13	0.25
2014-08-03	0.21	0.23	0.19	0.13	0.25
2014-08-02	0.19	0.21	0.18	0.12	0.23
2014-08-01	0.13	0.15	0.13	0.08	0.16
2014-07-31	0.06	0.07	0.05	0.03	0.07
2014-07-30	0.06	0.07	0.05	0.04	0.07
2014-07-29	0.18	0.20	0.17	0.11	0.22
2014-07-28	0.20	0.25	0.19	0.12	0.26
2014-07-27	0.26	0.31	0.24	0.16	0.32
2014-07-26	0.26	0.31	0.24	0.16	0.33
2014-07-25	0.25	0.31	0.24	0.16	0.32
2014-07-24	0.22	0.25	0.21	0.14	0.27
2014-07-23	0.20	0.22	0.18	0.12	0.23
2014-07-22	0.22	0.25	0.21	0.14	0.27
2014-07-21	0.23	0.26	0.21	0.14	0.28
2014-07-20	0.20	0.23	0.19	0.12	0.24
2014-07-19	0.11	0.13	0.11	0.07	0.14
2014-07-18	0.09	0.10	0.08	0.05	0.10
2014-07-17	0.03	0.04	0.03	0.02	0.04
2014-07-16	0.13	0.18	0.12	0.08	0.17
2014-07-15	0.25	0.32	0.23	0.15	0.34
2014-07-14	0.14	0.17	0.13	0.09	0.17
2014-07-13	0.27	0.32	0.25	0.17	0.34
2014-07-12	0.27	0.34	0.25	0.17	0.35
2014-07-11	0.28	0.35	0.26	0.17	0.36
2014-07-10	0.26	0.32	0.24	0.16	0.33
2014-07-09	0.17	0.21	0.16	0.11	0.22
2014-07-08	0.27	0.33	0.25	0.17	0.34
2014-07-07	0.27	0.32	0.25	0.17	0.34
2014-07-06	0.25	0.31	0.24	0.16	0.32
2014-07-05	0.22	0.26	0.20	0.13	0.27
2014-07-04	0.22	0.25	0.21	0.14	0.27
2014-07-03	0.19	0.22	0.18	0.12	0.24
2014-07-02	0.15	0.18	0.14	0.09	0.18

Pan
Evaporation (2)

3rd
Qtr

3

Date	Reference ET, Short [in]	Reference ET, Tall [in]	Cool Season Grass ET [in]	Warm Season Grass ET [in]	Pan Evaporation [in]
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
2014-09-24	0.15	0.19	0.14	0.10	0.19
2014-09-23	0.16	0.20	0.15	0.10	0.20
2014-09-22	0.20	0.27	0.19	0.12	0.27
2014-09-21	0.16	0.19	0.15	0.10	0.19
2014-09-20	0.16	0.20	0.15	0.10	0.20
2014-09-19	0.13	0.16	0.12	0.08	0.16
2014-09-18	0.08	0.10	0.08	0.05	0.10
2014-09-17	0.16	0.18	0.14	0.10	0.19
2014-09-16	0.15	0.17	0.14	0.09	0.18
2014-09-15	0.09	0.10	0.09	0.06	0.11
2014-09-14	0.09	0.10	0.08	0.06	0.11
2014-09-13	0.12	0.16	0.11	0.08	0.16
2014-09-12	0.06	0.08	0.06	0.04	0.08
2014-09-11	0.09	0.13	0.09	0.06	0.12
2014-09-10	0.28	0.40	0.26	0.17	0.39
2014-09-09	0.24	0.33	0.23	0.15	0.32
2014-09-08	0.15	0.17	0.14	0.09	0.17
2014-09-07	0.11	0.13	0.10	0.07	0.13
2014-09-06	0.14	0.20	0.13	0.09	0.19
2014-09-05	0.22	0.28	0.20	0.14	0.28
2014-09-04	0.28	0.38	0.26	0.17	0.38
2014-09-03	0.26	0.35	0.24	0.16	0.35
2014-09-02	0.23	0.31	0.22	0.14	0.31
2014-09-01	0.30	0.42	0.28	0.19	0.44
2014-08-31	0.25	0.33	0.23	0.15	0.33
2014-08-30	0.20	0.24	0.19	0.12	0.24
2014-08-29	0.18	0.22	0.17	0.11	0.22
2014-08-28	0.23	0.29	0.21	0.14	0.29
2014-08-27	0.21	0.25	0.19	0.13	0.26
2014-08-26	0.23	0.28	0.21	0.14	0.29
2014-08-25	0.24	0.29	0.22	0.15	0.30
2014-08-24	0.25	0.33	0.24	0.16	0.33
2014-08-23	0.28	0.37	0.26	0.17	0.37
2014-08-22	0.29	0.39	0.27	0.18	0.39
2014-08-21	0.28	0.38	0.26	0.17	0.39
2014-08-20	0.26	0.34	0.24	0.16	0.34

3rd
ptr

MILL CREEK DOLOMITE WATER USAGE LOG
3rd QUARTER 2014

3rd QUARTER 2014						
DATE	RAINFALL	Water Truck Hours			Calculated	
		START	END	MILES	Loads	Loads
Tuesday 7/1/2014						
Wednesday 7/2/2014	2.6					
Thursday 7/3/2014						
Friday 7/4/2014		70101	70168	67		8.38
Saturday 7/5/2014						
Sunday 7/6/2014						
Monday 7/7/2014						
Tuesday 7/8/2014						
Wednesday 7/9/2014						
Thursday 7/10/2014						
Friday 7/11/2014						
Saturday 7/12/2014						
Sunday 7/13/2014						
Monday 7/14/2014						
Tuesday 7/15/2014						
Wednesday 7/16/2014						
Thursday 7/17/2014	1.6					
Friday 7/18/2014						
Saturday 7/19/2014						
Sunday 7/20/2014						
Monday 7/21/2014						
Tuesday 7/22/2014						
Wednesday 7/23/2014						
Thursday 7/24/2014						
Friday 7/25/2014						
Saturday 7/26/2014						
Sunday 7/27/2014						
Monday 7/28/2014						
Tuesday 7/29/2014						
Wednesday 7/30/2014	0.8					
Thursday 7/31/2014	0.3					
Friday 8/1/2014						
Saturday 8/2/2014						
Sunday 8/3/2014						
Monday 8/4/2014						

Water Truck Summary			
	Loads		Gallons
	1		4,500
3rd Quarter totals	31.1		140062.5

WELL				
DATE	WK	PU - 21		Ag Lime
		Meter Reading	HRS. RAN	
7/1/14	15	10998	0.0	
7/8/14	16	10998	0.0	
7/15/14	17	10998	0.0	
7/22/14	18	10998	0.0	
7/29/14	19	10998	0.0	
8/5/14	20	10998	0.0	
8/12/14	21	10998	0.0	
8/19/14	22	11027	29.0	
8/26/14	23	11027	0.0	
9/2/14	24	11027	0.0	
9/9/14	25	11027	0.0	
9/16/14	26	11027	0.0	
9/23/14	27	11027	0.0	
9/30/14	28	11027	0.0	
3rd Quarter Total			29.0	
Total gallons (@ 476.47/hr)			13818	

3rd QUARTER TOTAL GROUNDWATER USAGE (gallons) 153880

3rd Qtr Water took hrs page 2

Tuesday	8/5/2014						
Wednesday	8/6/2014		70168	70245	77		9.63
Thursday	8/7/2014	0.3					
Friday	8/8/2014						
Saturday	8/9/2014						
Sunday	8/10/2014						
Monday	8/11/2014	1.25					
Tuesday	8/12/2014						
Wednesday	8/13/2014						
Thursday	8/14/2014						
Friday	8/15/2014		70245	70264	19	2.38	
Saturday	8/16/2014						
Sunday	8/17/2014						
Monday	8/18/2014						
Tuesday	8/19/2014						
Wednesday	8/20/2014						
Thursday	8/21/2014						
Friday	8/22/2014						
Saturday	8/23/2014						
Sunday	8/24/2014						
Monday	8/25/2014						
Tuesday	8/26/2014		70264	70293	29	3.63	
Wednesday	8/27/2014						
Thursday	8/28/2014						
Friday	8/29/2014						
Saturday	8/30/2014						
Sunday	8/31/2014						
Monday	9/1/2014						
Tuesday	9/2/2014						
Wednesday	9/3/2014						
Thursday	9/4/2014						
Friday	9/5/2014						
Saturday	9/6/2014						
Sunday	9/7/2014						
Monday	9/8/2014						
Tuesday	9/9/2014						
Wednesday	9/10/2014						
Thursday	9/11/2014						
Friday	9/12/2014						
Saturday	9/13/2014						
Sunday	9/14/2014						
Monday	9/15/2014						

3rd Qtr water took has page 3

Tuesday	9/16/2014						
Wednesday	9/17/2014						
Thursday	9/18/2014	1.3					
Friday	9/19/2014						
Saturday	9/20/2014						
Sunday	9/21/2014	0.5					
Monday	9/22/2014						
Tuesday	9/23/2014						
Wednesday	9/24/2014						
Thursday	9/25/2014						
Friday	9/26/2014						
Saturday	9/27/2014						
Sunday	9/28/2014						
Monday	9/29/2014						
Tuesday	9/30/2014		70293	70350	57	7.13	
Totals		8.7			249.0	31.1	