

Quarterly Report 2016
 North Troy Quarry
 Mill Creek, OK
 Vulcan Materials Company

3rd QTR

VMC North Troy 2016 Monitoring Report

All volumes are in acre-feet.

	Total Groundwater Entering Pit	Total Stormwater Entering Pit	Total Pit Stormwater Diverted	Total Pit Water Diverted	Pit Water Sent To Holding Basin	Groundwater Augmentation	Streamwater Augmentation	Consumptive Use of Pit Water	Streamwater Pumped From Mill Creek	Groundwater Pumped From Wells	Total Annual Groundwater Allocation, Ac-ft
January-16	343.14	1.28	1.28	330.38	53.06	241.05	39.79	4.10	0.00	0.00	219.50
February-16	303.78	16.79	16.79	314.86	51.53	263.89	65.67	6.65	0.00	0.00	219.50
March-16	270.82	27.14	27.14	267.20	5.80	348.12	122.45	8.71	0.00	1.48	219.50
1st QTR Totals	817.74	45.19	45.19	912.42	110.39	853.05	227.91	19.46	0.00	1.48	N/A
April-16	264.37	50.12	50.12	263.45	43.18	272.64	108.45	8.72	0.00	0.00	219.50
May-16	818.50	12.58	12.58	816.39	32.53	290.32	65.89	8.44	0.00	0.00	219.50
June-16	378.30	2.20	2.20	377.85	43.24	336.81	0.00	7.77	0.00	0.00	219.50
2nd QTR Totals	1481.18	64.90	64.90	1457.89	118.95	898.77	174.34	24.93	0.00	0.00	N/A
July-16	314.22	6.58	6.58	316.39	26.85	53.37	242.75	11.68	0.00	1.44	219.50
August-16	288.15	12.94	12.94	290.57	50.18	253.34	0.00	11.50	0.00	0.00	219.50
September-16	358.08	23.98	23.98	355.68	30.28	349.42	0.00	9.84	0.00	0.00	219.50
3rd QTR Totals	960.46	43.51	43.51	962.85	107.26	656.13	242.75	33.02	0.00	1.44	N/A
October-16	#VALUE!	20.24	20.24	-20.24	0.00	0.00	0.00	3.51	0.00	0.00	219.50
November-16	#VALUE!	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
December-16	#VALUE!	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
4th QTR Totals	#VALUE!	20.24	20.24	-20.24	0.00	0.00	0.00	3.51	0.00	0.00	219.50
2016 Totals	#VALUE!	173.84	173.84	3312.52	336.53	2408.95	645.00	80.92	0.00	2.92	219.50

1st Qtr Notes

2nd Qtr Notes Pit Meter replaced Mar 19th

3rd Qtr notes Onsite Rain Gauge damaged by hail Replaced

July Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS	
Hydrologic Soil Group	D
Land Use	gravel road
AMC Condition	II (ave)
CN (pit fringe)	88
CN (pit)	100
S (pit fringe)	1.553638
S (pit)	0
Pit - Direct Interception (>95 ft deep)	53.91
Pit fringe (area drains to pit)	122.04
Drainage to Pit (total area)	176.95

Date	Quarry area		Fringe area		Daily
	Precip, in.	Runoff, in.	Runoff, in.	Evaporation, in.	
1-Jul	0.00	0.00	0.25	0.25	Runoff formula
2-Jul	0.00	0.00	0.34	0.34	Pe = (P-0.25)*2/(P+0.85)
3-Jul	0.00	0.00	0.31	0.31	S = (1000/CN)-10
4-Jul	0.00	0.00	0.24	0.24	
5-Jul	0.00	0.00	0.33	0.33	Blue cells contain formulas
6-Jul	0.00	0.00	0.4	0.4	
7-Jul	0.00	0.00	0.42	0.42	
8-Jul	0.00	0.00	0.37	0.37	
9-Jul	0.00	0.00	0.22	0.22	
10-Jul	0.00	0.00	0.34	0.34	
11-Jul	0.00	0.00	0.41	0.41	
12-Jul	0.00	0.00	0.47	0.47	
13-Jul	0.00	0.00	0.45	0.45	
14-Jul	0.00	0.00	0.32	0.32	
15-Jul	0.38	0.38	0.00	0.26	
16-Jul	0.00	0.00	0.00	0.29	
17-Jul	0.00	0.00	0.00	0.41	
18-Jul	0.00	0.00	0.00	0.34	
19-Jul	0.00	0.00	0.00	0.31	
20-Jul	0.00	0.00	0.00	0.33	
21-Jul	0.00	0.00	0.00	0.34	
22-Jul	0.00	0.00	0.00	0.35	
23-Jul	0.00	0.00	0.00	0.36	
24-Jul	0.00	0.00	0.00	0.35	
25-Jul	0.60	0.60	0.00	0.27	
26-Jul	0.03	0.03	0.00	0.2	
27-Jul	0.00	0.00	0.00	0.22	
28-Jul	0.16	0.16	0.00	0.27	
29-Jul	0.00	0.00	0.00	0.32	
30-Jul	0.00	0.00	0.00	0.3	
31-Jul	0.00	0.00	0.00	0.37	
sum	1.47	1.47	0.00	10.18	10.16
Volume, ac-ft	6.58	6.58	0.00		
Total Vol, ac-ft					Pan Evaporation from Sulphur Mesonet

August Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS	
Hydrologic Soil Group	D
Land Use	gravel road
AMC Condition	II (ave)
CN (pit fringe)	88
CN (pit)	100
S (pit fringe)	1000000
S (pit)	53.91
Pit - Direct Interception (>95 ft deep)	122.04
Pit fringe (area drains to pit)	176.65
Drainage to Pit (total area)	
	area draining into pit
	area with direct interception
	area draining into pit
	area with direct interception
	subject to refinement
	subject to refinement

Date	Precip. in, in.	Runoff, in.	Fringe area, in.	Daily Evaporation, in.	Daily Runoff formula
1-Aug	1.19	0.00	0.00	0.4	Runoff formula
2-Aug		0.00	0.00	0.4	Runoff formula
3-Aug		0.00	0.00	0.37	Pe = (P-0.2S) ² /(P+0.8S)
4-Aug		0.00	0.00	0.37	S = (10000/CN)-10
5-Aug		0.00	0.00	0.34	Blue cells contain formulas
6-Aug		0.00	0.00	0.31	
7-Aug		0.00	0.00	0.37	
8-Aug	0.02	0.02	0.00	0.28	
9-Aug		0.00	0.00	0.32	
10-Aug		0.00	0.00	0.34	
11-Aug		0.00	0.00	0.38	
12-Aug		0.00	0.00	0.3	
13-Aug		0.00	0.00	0.38	
14-Aug		0.00	0.00	0.35	
15-Aug		0.00	0.00	0.19	
16-Aug		0.00	0.00	0.28	
17-Aug		0.00	0.00	0.26	
18-Aug		0.00	0.00	0.18	
19-Aug	0.59	0.59	0.00	0.08	
20-Aug	0.67	0.67	0.00	0.12	
21-Aug		0.00	0.00	0.3	
22-Aug	0.10	0.10	0.00	0.2	
23-Aug		0.00	0.00	0.26	
24-Aug		0.00	0.00	0.39	
25-Aug		0.00	0.00	0.31	
26-Aug		0.00	0.00	0.25	
27-Aug		0.00	0.00	0.27	
28-Aug		0.00	0.00	0.22	
29-Aug		0.00	0.00	0.19	
30-Aug	0.28	0.28	0.00	0.24	
31-Aug	0.03	0.03	0.00	0.2	
sum	2.88	2.88	0.00	8.83	
Volume, ac-ft		12.94	0.00		
Total Vol, ac-ft		12.94			

Pan Evaporation from Sulphur Mesonet

September Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS	
Hydrologic Soil Group	D
Land Use	travel road
AMC Condition	II (ave)
CN (pit fringe)	88
CN (pit)	100
S (pit fringe)	1.30636
S (pit)	0
Pit - Direct Interception (>95 ft deep)	53.91
Pit fringe (area drains to pit)	122.04
Drainage to Pit (total area)	175.95

Date	Quarry area		Fringe area		Daily
	Precip. in.	Runoff, in.	Runoff, in.	Evaporation, in.	
1-Sep	0.25	0.24	0.00	0.18	Runoff formula
2-Sep	0.00	0.00	0.00	0.18	Runoff formula
3-Sep	0.01	0.01	0.00	0.24	Pe = (P-0.25)^2/(P+0.85) S = (1000/CN)-10
4-Sep	0.00	0.00	0.00	0.3	
5-Sep	0.00	0.00	0.00	0.34	
6-Sep	0.00	0.00	0.00	0.3	
7-Sep	0.00	0.00	0.00	0.33	
8-Sep	0.00	0.00	0.00	0.37	
9-Sep	0.00	0.00	0.00	0.34	
10-Sep	0.27	0.27	0.00	0.22	
11-Sep	0.00	0.00	0.00	0.24	
12-Sep	0.00	0.00	0.00	0.29	
13-Sep	0.00	0.00	0.00	0.25	
14-Sep	0.00	0.00	0.00	0.15	
15-Sep	0.00	0.00	0.00	0.11	
16-Sep	0.17	0.17	0.00	0.19	
17-Sep	0.88	0.88	0.00	0.18	
18-Sep	1.23	1.23	0.00	0.23	
19-Sep	0.00	0.00	0.00	0.23	
20-Sep	0.00	0.00	0.00	0.24	
21-Sep	0.00	0.00	0.00	0.21	
22-Sep	0.00	0.00	0.00	0.22	
23-Sep	0.00	0.00	0.00	0.23	
24-Sep	0.00	0.00	0.00	0.25	
25-Sep	1.39	1.39	0.50	0.08	
26-Sep	0.00	0.00	0.00	0.22	
27-Sep	0.00	0.00	0.00	0.15	
28-Sep	0.00	0.00	0.00	0.21	
29-Sep	0.00	0.00	0.00	0.18	
30-Sep	0.00	0.00	0.00	0.14	
Sum	4.80	4.80	0.50	6.80	
Volume, ac-ft		18.87		61.2	
Total Vol, ac-ft		23.99			

Pan Evaporation from Sulphur Mesonet

Monthly Water Data, ac-ft

	Water Diverted From Pit	Storm Water Entering Pit	Net Sump Volume Change	Groundwater Sent to Holding Basin	Groundwater Infiltration Areas	Groundwater Used For Stream Augmentation	Evaporation	Moisture Content of Product Shipped	Water Truck Usage	Misc Pit Water Use On Site	Misc Pit Water Use Off Site	Production Well Permit 2002-SD2	North Well Permit 2006SD1A
January-15	331.62	1.26	1276	53.06	239.77	39.78	1.78	1.43	0.65	0.00	0.00	0.00	0.00
February-15	331.65	16.79	1106	51.53	258.15	65.67	3.40	2.36	0.69	0.00	0.00	0.00	0.00
March-15	294.34	27.14	362	5.80	345.62	122.45	4.11	3.55	1.04	0.00	1.48	0.00	0.00
April-15	313.57	50.12	669	43.18	272.64	108.45	4.93	3.09	0.71	0.00	0.00	0.00	0.00
May-15	828.97	12.58	210	32.53	290.32	65.88	4.71	3.37	0.37	0.00	0.00	0.00	0.00
June-15	360.05	2.20	0.43	43.24	336.81	6.04	6.04	0.95	0.77	0.00	0.00	0.00	0.00
July-15	322.97	6.58	2.16	28.85	242.75	2.70	7.76	2.70	1.22	0.00	1.44	0.00	0.00
August-15	303.51	12.84	2.49	50.18	253.34	0.00	6.75	3.91	0.85	0.00	0.00	0.00	0.00
September-15	379.68	23.99	2.40	30.26	349.42	0.00	5.20	3.74	0.90	0.00	0.00	0.00	0.00
October-15		20.24					3.51	0.00	0.00	0.00	0.00	0.00	0.00
November-15		0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
December-15		0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pit Sump Volumes

	West Sump				905 Sump				New Freshwater Pond							
	Month End Depth-to-Water, Ft	Width, Ft	Length, Ft	Sump Volume Change, Ac-ft	Evaporation, ac-ft	Month End Depth-to-Water, Ft	Width, Ft	Length, Ft	Sump Volume Change, Ac-ft	Evaporation, ac-ft	Month End Depth-to-Water, Ft	Width, Ft	Length, Ft	Pond Volume Change, Ac-ft	Evaporation, ac-ft	Total Evaporation, ac-ft
January-15	5.535	125	325	1276	0.20	4	50	50	50	0.01	5.408	475	750	-18.88	1.78	2.00
February-15	17.412	125	325	1106	0.34	4	50	50	50	0.01	5.018	475	750	3.41	3.40	3.81
March-15	13.53	125	325	362	0.41	4	50	50	50	0.01	5.819	475	750	-0.99	4.11	4.81
April-15	12.537	125	325	669	0.50	4	50	50	50	0.00	4.454	475	750	11.16	4.93	4.93
May-15	10.28	125	325	210	0.49	4	50	50	50	0.00	4.452	475	750	0.02	4.20	4.71
June-15	9.8	125	325	0.43	0.67	4	50	50	50	0.00	2.558	475	750	15.61	5.39	6.04
July-15	12.12	125	325	2.16	0.78	4	50	50	50	0.00	4.087	475	750	12.67	4.93	7.76
August-15	14.719	125	325	2.43	0.68	4	50	50	50	0.00	3.812	475	750	2.29	5.02	6.75
September-15	12.15	125	325	2.40	0.59	4	50	50	50	0.00	4.14	475	750	-2.68	4.63	5.30
October-15		125	325		0.00	4	50	50	50	0.00		475	750		3.11	3.61
November-15		125	325		0.00	4	50	50	50	0.00		475	750		0.00	0.00
December-15		125	325		0.00	4	50	50	50	0.00		475	750		0.00	0.00

	July Shipments		August Shipments		September Shipments	
	Tons Shipped	Ac-ft of water shipped	Tons Shipped	Ac-ft of water shipped	Tons Shipped	Ac-ft of water shipped
Base Products	1,786	0.044	2,178	0.059	900	0.022
Coarse Aggregates	162,448	1.952	253,382	3.045	187,339	2.372
Fine Aggregates	22,279	0.708	25,403	0.807	42,339	1.345
	186,513	2.704	280,963	3.909	249,578	3.709

3rd QTR

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 Mill Creek, OK
 Vulcan Materials Company

VMC North Troy 2016 Monitoring Report

All volumes are in acre-feet.

	Total Groundwater Entering Pit	Total Stormwater Entering Pit	Total Pit Stormwater Diverted	Total Pit Water Diverted	Pit Water Sent To Holding Basin	Groundwater Augmentation	Streamwater Augmentation	Consumptive Use of Pit Water	Streamwater Pumped From Mill Creek	Groundwater Pumped From Wells	Total Annual Groundwater Allocation, Ac-ft
January-16	343.14	1.26	1.26	330.36	53.06	241.05	39.78	4.10	0.00	0.00	219.50
February-16	303.78	16.79	16.79	314.86	51.53	263.89	65.67	6.65	0.00	0.00	219.50
March-16	270.82	27.14	27.14	267.20	5.80	348.12	122.45	8.71	0.00	1.48	219.50
1st QTR Totals	917.74	45.19	45.19	912.42	110.39	853.05	227.91	19.46	0.00	1.48	N/A
April-16	264.37	50.12	50.12	263.45	43.18	272.64	108.45	8.72	0.00	0.00	219.50
May-16	818.50	12.58	12.58	816.39	32.53	290.32	65.89	8.44	0.00	0.00	219.50
June-16	378.30	2.20	2.20	377.85	43.24	336.81	0.00	7.77	0.00	0.00	219.50
2nd QTR Totals	1461.18	64.90	64.90	1457.69	118.95	895.77	174.34	24.93	0.00	0.00	N/A
July-16	314.22	6.58	6.58	316.39	26.85	53.37	242.75	11.68	0.00	1.44	219.50
August-16	288.15	12.94	12.94	290.57	50.18	253.34	0.00	11.50	0.00	0.00	219.50
September-16	358.09	23.98	23.98	355.69	30.26	349.42	0.00	9.84	0.00	0.00	219.50
3rd QTR Totals	980.48	43.51	43.51	962.65	107.29	658.13	242.75	33.02	0.00	1.44	N/A
October-16	#VALUE!	20.24	20.24	-20.24	0.00	0.00	0.00	3.51	0.00	0.00	219.50
November-16	#VALUE!	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
December-16	#VALUE!	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.50
4th QTR Totals	#VALUE!	20.24	20.24	-20.24	0.00	0.00	0.00	3.51	0.00	0.00	N/A
2016 Totals	#VALUE!	173.84	173.84	3312.52	336.63	2408.95	645.00	80.92	0.00	2.92	219.50

1st Qtr Notes

2nd Qtr Notes Pit Meter replaced Mar 19th

3rd Qtr notes Onsite Rain Gauge damaged by hail Replaced

July Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS	
Hydrologic Soil Group	D
Land Use	gravel road
AMC Condition	II (ave)
CN (pit fringe)	88
CN (pit)	100
S (pit fringe)	1.33
S (pit)	0
Pit - Direct Interception (>95 ft deep)	53.91
Pit fringe (area drains to pit)	122.04
Drainage to Pit (total area)	176.95
	area draining into pit
	area with direct interception
	subject to refinement
	area draining into pit
	area with direct interception
	subject to refinement

Date	Quarry area		Daily Runoff, in.	Daily Evaporation, in.	Runoff formula
	Precip, in.	Runoff, in.			
1-Jul	0.00	0.00	0.25	0.25	Runoff formula
2-Jul	0.00	0.00	0.34	0.34	Runoff formula
3-Jul	0.00	0.00	0.31	0.31	Runoff formula
4-Jul	0.00	0.00	0.24	0.24	Runoff formula
5-Jul	0.00	0.00	0.33	0.33	Runoff formula
6-Jul	0.00	0.00	0.42	0.42	Runoff formula
7-Jul	0.00	0.00	0.37	0.37	Runoff formula
8-Jul	0.00	0.00	0.22	0.22	Runoff formula
9-Jul	0.00	0.00	0.34	0.34	Runoff formula
10-Jul	0.00	0.00	0.41	0.41	Runoff formula
11-Jul	0.00	0.00	0.47	0.47	Runoff formula
12-Jul	0.00	0.00	0.45	0.45	Runoff formula
13-Jul	0.00	0.00	0.32	0.32	Runoff formula
14-Jul	0.38	0.38	0.00	0.26	Runoff formula
15-Jul	0.00	0.00	0.00	0.29	Runoff formula
16-Jul	0.00	0.00	0.00	0.41	Runoff formula
17-Jul	0.00	0.00	0.00	0.34	Runoff formula
18-Jul	0.00	0.00	0.00	0.31	Runoff formula
19-Jul	0.00	0.00	0.00	0.33	Runoff formula
20-Jul	0.00	0.00	0.00	0.34	Runoff formula
21-Jul	0.00	0.00	0.00	0.35	Runoff formula
22-Jul	0.00	0.00	0.00	0.36	Runoff formula
23-Jul	0.00	0.00	0.00	0.35	Runoff formula
24-Jul	0.90	0.90	0.00	0.27	Runoff formula
25-Jul	0.03	0.03	0.00	0.22	Runoff formula
26-Jul	0.16	0.16	0.00	0.27	Runoff formula
27-Jul	0.00	0.00	0.00	0.32	Runoff formula
28-Jul	0.00	0.00	0.00	0.33	Runoff formula
29-Jul	0.00	0.00	0.00	0.37	Runoff formula
30-Jul	0.00	0.00	0.00	0.18	Runoff formula
31-Jul	1.47	1.47	0.00	0.00	Runoff formula
sum	1.47	1.47	0.00	10.15	Runoff formula
Volume, ac-ft	0.00	0.00	0.00	0.00	
Total Vol, ac-ft	0.00	0.00	0.00	0.00	

Pan Evaporation from Sulphur Mesonet

August Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS	
Hydrologic Soil Group	D
Land Use	gravel road
AMC Condition	II (ave)
CN (pit fringe)	88
CN (pit)	100
S (pit fringe)	1.34336
S (pit)	0
Pit - Direct Interception (>95 ft deep)	53.91
Pit fringe (area drains to pit)	122.04
Drainage to Pit (total area)	175.95

Date	Quarry area		Daily
	Precip, in.	Runoff, in.	
1-Aug	1.19	0.00	0.4
2-Aug	0.00	0.00	0.4
3-Aug	0.00	0.00	0.37
4-Aug	0.00	0.00	0.37
5-Aug	0.00	0.00	0.34
6-Aug	0.00	0.00	0.31
7-Aug	0.00	0.00	0.37
8-Aug	0.02	0.00	0.28
9-Aug	0.00	0.00	0.32
10-Aug	0.00	0.00	0.34
11-Aug	0.00	0.00	0.38
12-Aug	0.00	0.00	0.3
13-Aug	0.00	0.00	0.38
14-Aug	0.00	0.00	0.35
15-Aug	0.00	0.00	0.19
16-Aug	0.00	0.00	0.28
17-Aug	0.00	0.00	0.26
18-Aug	0.00	0.00	0.16
19-Aug	0.59	0.56	0.08
20-Aug	0.67	0.67	0.12
21-Aug	0.00	0.00	0.3
22-Aug	0.10	0.10	0.2
23-Aug	0.00	0.00	0.26
24-Aug	0.00	0.00	0.39
25-Aug	0.00	0.00	0.31
26-Aug	0.00	0.00	0.25
27-Aug	0.00	0.00	0.27
28-Aug	0.00	0.00	0.22
29-Aug	0.00	0.00	0.19
30-Aug	0.28	0.28	0.24
31-Aug	0.03	0.03	0.2
sum	2.86	2.86	8.83

8.83

Blue cells contain formulas

Volume, ac-ft 12.94

Total Vol, ac-ft 12.94

Pan Evaporation from Sulphur Mesonet

September Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS	
Hydrologic Soil Group	D
Land Use	gravel road
AMC Condition	II (ave)
CN (pit fringe)	88
CN (pit)	100
S (pit fringe)	1.3695E-04
S (pit)	0
Pit - Direct Interception (>85 ft deep)	53.91
Pit fringe (area drains to pit)	122.04
Drainage to Pit (total area)	175.95
area draining into pit	area with direct interception
area draining into pit	area with direct interception
subject to refinement	subject to refinement
subject to refinement	subject to refinement

Date	Quarry area		Daily
	Precip, in.	Runoff, in.	
1-Sep	0.25	0.24	0.18
2-Sep	0.00	0.00	0.18
3-Sep	0.01	0.01	0.24
4-Sep	0.00	0.00	0.3
5-Sep	0.00	0.00	0.34
6-Sep	0.00	0.00	0.3
7-Sep	0.00	0.00	0.33
8-Sep	0.00	0.00	0.37
9-Sep	0.00	0.00	0.34
10-Sep	0.27	0.27	0.22
11-Sep	0.00	0.00	0.24
12-Sep	0.00	0.00	0.29
13-Sep	0.00	0.00	0.25
14-Sep	0.00	0.00	0.15
15-Sep	0.00	0.00	0.11
16-Sep	0.17	0.17	0.19
17-Sep	0.88	0.88	0.18
18-Sep	1.23	1.23	0.23
19-Sep	0.00	0.00	0.23
20-Sep	0.00	0.00	0.24
21-Sep	0.00	0.00	0.21
22-Sep	0.00	0.00	0.22
23-Sep	0.00	0.00	0.23
24-Sep	0.00	0.00	0.25
25-Sep	1.39	1.39	0.08
26-Sep	0.00	0.00	0.22
27-Sep	0.00	0.00	0.15
28-Sep	0.00	0.00	0.21
29-Sep	0.00	0.00	0.18
30-Sep	0.00	0.00	0.14
sum	4.20	4.20	6.50
Volume, ac-ft	18.97	6.12	
Total Vol, ac-ft	25.09		

Pan Evaporation from Sulphur Mesonet

Monthly Water Data, ac-ft

	Water Diverted From Pit	Storm Water Entering Pit	Net Sump Volume Change	Groundwater Sent To Holding Basin	Groundwater Infiltration Areas	Groundwater Used For Stream Augmentation	Evaporation	Moisture Content of Product Shipped	Water Truck Usage	Misc Pit Water Use On Site	Misc Pit Water Use Off Site	Production Well Permit 2002-602	North Well Permit 20060501A
January-15	331.62	1.26	12.78	53.06	238.77	39.78	1.78	1.43	0.89	0.00	0.00	0.00	0.00
February-15	331.65	16.79	11.06	51.53	258.15	65.67	3.40	2.36	0.99	0.00	0.00	0.00	0.00
March-15	294.34	27.14	1.62	5.60	345.62	122.45	4.11	3.55	1.04	0.00	0.00	1.48	0.00
April-15	313.57	50.12	0.63	43.18	272.64	108.45	4.93	3.09	0.71	0.00	0.00	0.00	0.00
May-15	628.97	12.58	2.10	32.53	290.32	65.68	4.71	3.37	0.37	0.00	0.00	0.00	0.00
June-15	380.05	2.20	0.46	43.24	336.81	0.00	6.04	0.95	0.77	0.00	0.00	0.00	0.00
July-15	322.97	6.58	2.16	20.85	53.37	242.75	7.76	2.70	1.22	0.00	0.00	1.44	0.00
August-15	303.51	12.94	2.62	50.18	253.34	0.00	6.79	3.91	0.95	0.00	0.00	0.00	0.00
September-15	379.68	23.99	2.40	30.26	349.42	0.00	5.20	3.74	0.90	0.00	0.00	0.00	0.00
October-15		20.24					3.51	0.00	0.00	0.00	0.00	0.00	0.00
November-15		0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00
December-15		0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pit Sump Volumes

	West Sump				905 Sump				New Freshwater Pond				Total Evaporation, ac-ft			
	Month End Depth-to-Water, Ft	Width, Ft	Length, Ft	Sump Volume Change, Ac-ft	Evaporation, ac-ft	Month End Depth-to-Water, Ft	Width, Ft	Length, Ft	Sump Volume Change, Ac-ft	Evaporation, ac-ft	Month End Depth-to-Water, Ft	Width, Ft		Length, Ft	Pond Volume Change, Ac-ft	Evaporation, ac-ft
January-15	5.535	125	325	12.78	0.26	4	50	50	50	0.01	5.406	475	750	-18.68	1.74	2.06
February-15	17.412	125	325	-11.06	0.18	4	50	50	50	0.02	5.018	475	750	3.12	3.40	1.81
March-15	13.53	125	325	3.62	0.41	4	50	50	50	0.03	5.819	475	750	8.69	4.11	4.61
April-15	12.537	125	325	0.80	0.60	4	50	50	50	0.03	4.454	475	750	11.16	4.40	4.83
May-15	10.28	125	325	2.10	0.48	4	50	50	50	0.03	4.452	475	750	11.02	4.20	4.73
June-15	9.8	125	325	0.46	0.61	4	50	50	50	0.04	2.556	475	750	16.61	5.39	5.04
July-15	12.12	125	325	-2.10	0.78	4	50	50	50	0.05	4.087	475	750	-12.62	5.92	7.76
August-15	14.719	125	325	-2.40	0.68	4	50	50	50	0.05	3.812	475	750	2.25	6.02	6.26
September-15	12.15	125	325	2.40	0.96	4	50	50	50	0.03	4.14	475	750	-2.68	4.83	5.20
October-15		125	325		0.96	4	50	50	50	0.07		475	750		3.13	3.51
November-15		125	325		0.00	4	50	50	50	0.00		475	750		0.00	0.00
December-15		125	325		0.00	4	50	50	50	0.00		475	750		0.00	0.00

	July Shipments		August Shipments		September Shipments	
	Tons Shipped	Ac-ft of water shipped	Tons Shipped	Ac-ft of water shipped	Tons Shipped	Ac-ft of water shipped
Base Products	1,798	0.044	2,178	0.065	900	0.022
Coarse Aggregates	162,448	1.062	253,382	3.046	197,339	2.372
Fine Aggregates	22,278	0.706	25,403	0.807	42,339	1.345
	186,524	2.712	280,963	3.918	240,578	3.739