

# 2022 ANNUAL REPORT

Report 2022

North Troy Quarry

Mill Creek, OK

Vulcan Materials Company

## VMC North Troy 2022 Monitoring Report

All volumes are in acre-feet.

	All Water Pumped	Total Stormwater Entering Pit note(a)	Total Groundwater Diverted	Pit Water Sent To Holding Basin	Groundwater Augmentation	Streamwater Augmentation	Defined Elements of Consumptive Use of Pit Water	Streamwater Pumped From Mill Creek	Groundwater Pumped From Wells	Total Annual Groundwater Allocation, Ac-ft
January-22	599.84	4.07	595.77	3.47	601.12	0.00	4.06	0.00	0.00	219.50
February-22	338.68	8.60	330.08	8.53	332.32	0.00	3.56	0.00	0.00	219.50
March-22	747.52	14.71	732.81	21.60	732.65	0.00	5.26	0.00	0.00	219.50
<b>1st QTR Totals</b>	<b>1686.04</b>	<b>27.38</b>	<b>1658.66</b>	<b>33.60</b>	<b>1666.09</b>	<b>0.00</b>	<b>12.88</b>	<b>0.00</b>	<b>0.00</b>	<b>N/A</b>
April-22	663.40	22.29	641.11	24.83	640.99	0.00	5.88	0.00	0.00	219.50
May-22	615.50	55.32	560.18	88.87	532.11	0.00	5.71	0.00	0.00	219.50
June-22	624.70	29.21	595.49	61.53	565.67	0.00	5.80	0.00	0.00	219.50
<b>2nd QTR Totals</b>	<b>1903.60</b>	<b>106.83</b>	<b>1796.77</b>	<b>175.23</b>	<b>1738.76</b>	<b>0.00</b>	<b>17.39</b>	<b>0.00</b>	<b>0.00</b>	<b>N/A</b>
July-22	605.00	2.78	602.23	67.00	543.99	0.00	8.02	0.00	0.00	219.50
August-22	628.10	10.73	617.37	56.10	574.50	0.00	8.96	0.00	0.00	219.50
September-22	712.00	3.15	708.86	37.00	680.74	0.00	11.31	0.00	0.00	219.50
<b>3rd QTR Totals</b>	<b>1945.10</b>	<b>16.65</b>	<b>1928.45</b>	<b>160.10</b>	<b>1799.22</b>	<b>0.00</b>	<b>28.29</b>	<b>0.00</b>	<b>0.00</b>	<b>N/A</b>
October-22	672.00	39.81	632.19	29.00	645.50	0.00	6.09	0.00	0.00	219.50
November-22	664.00	28.95	635.05	33.00	636.49	0.00	6.50	0.00	0.00	219.50
December-22	384.00	13.69	370.31	46.00	340.39	0.00	7.31	0.00	0.00	219.50
<b>4th QTR Totals</b>	<b>1720.00</b>	<b>82.45</b>	<b>1637.55</b>	<b>108.00</b>	<b>1622.37</b>	<b>0.00</b>	<b>19.90</b>	<b>0.00</b>	<b>0.00</b>	<b>N/A</b>
<b>2022 Totals</b>	<b>7254.74</b>	<b>233.31</b>	<b>7021.43</b>	<b>476.93</b>	<b>6826.44</b>	<b>0.00</b>	<b>78.46</b>	<b>0.00</b>	<b>0.00</b>	<b>219.50</b>
<b>2022 Total (adj)</b>	<b>7254.74</b>	<b>233.31</b>	<b>7021.43</b>	<b>476.93</b>	<b>6826.44</b>	<b>0.00</b>	<b>78.46</b>	<b>0.00</b>	<b>0.00</b>	<b>219.50</b>

(A) MEPS 219.50 acre-ft @ .2 per acre  
 1st Qtr notes  
 2nd Qtr notes  
 3rd Qtr notes Water malfunction  
 4th Qtr notes

(a) Total Stormwater = Volume of precipitation that falls into producing mine pit and volume of precipitation that falls onto producing mine and flows over the land surface into the mine pit.  
 (adj) Annual total adjustment for stormwater carried over to next calendar year

Water Balance = -281.95 Total Net Reported Consumptive Use

Calculation formula ( based on Appendix C)  
 Total Net consumptive use = Defined elements of consumptive use (G)  
 + (All water pumped (A) - Stormwater(B)) - Defined elements of consumptive use(G))  
 - (stream augmentation(H)+Ground augmentation(G)+Holding basin(F))  
 =G+((A-B)-G)-(F+E+D)

Define Elements = Evaporation of ponds and held water + moisture content shipped + water truck usage + misc. pit usage

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## 2022 4th Quarter Report

Report 2022

North Troy Quarry

Mill Creek, OK

Vulcan Materials Company

### VMC North Troy 2022 Monitoring Report

All volumes are in acre-feet.

	All Water Pumped	Total Stormwater Entering Pit note(a)	Total Groundwater Diverted	Pit Water Sent To Holding Basin	Groundwater Augmentation	Streamwater Augmentation	Defined Elements of Consumptive Use of Pit Water	Streamwater Pumped From Mill Creek	Groundwater Pumped From Wells	Total Annual Groundwater Allocation, Ac-ft
January-22	599.84	4.07	595.77	3.47	601.12	0.00	4.06	0.00	0.00	219.50
February-22	338.68	8.60	330.08	8.53	332.32	0.00	3.56	0.00	0.00	219.50
March-22	747.52	14.71	732.81	21.60	732.65	0.00	5.26	0.00	0.00	219.50
<b>1st QTR Totals</b>	<b>1686.04</b>	<b>27.38</b>	<b>1658.66</b>	<b>33.60</b>	<b>1666.09</b>	<b>0.00</b>	<b>12.88</b>	<b>0.00</b>	<b>0.00</b>	<b>N/A</b>
April-22	663.40	22.29	641.11	24.83	640.99	0.00	5.88	0.00	0.00	219.50
May-22	615.50	55.32	560.18	88.87	532.11	0.00	5.71	0.00	0.00	219.50
June-22	624.70	29.21	595.49	61.53	565.67	0.00	5.80	0.00	0.00	219.50
<b>2nd QTR Totals</b>	<b>1903.60</b>	<b>106.83</b>	<b>1796.77</b>	<b>175.23</b>	<b>1738.76</b>	<b>0.00</b>	<b>17.39</b>	<b>0.00</b>	<b>0.00</b>	<b>N/A</b>
July-22	605.00	2.78	602.23	67.00	543.99	0.00	8.02	0.00	0.00	219.50
August-22	628.10	10.73	617.37	56.10	574.50	0.00	8.96	0.00	0.00	219.50
September-22	712.00	3.15	708.86	37.00	680.74	0.00	11.31	0.00	0.00	219.50
<b>3rd QTR Totals</b>	<b>1945.10</b>	<b>16.65</b>	<b>1928.45</b>	<b>160.10</b>	<b>1799.22</b>	<b>0.00</b>	<b>28.29</b>	<b>0.00</b>	<b>0.00</b>	<b>N/A</b>
October-22	672.00	39.81	632.19	29.00	645.50	0.00	6.09	0.00	0.00	219.50
November-22	664.00	28.95	635.05	33.00	636.49	0.00	6.50	0.00	0.00	219.50
December-22	384.00	13.69	370.31	46.00	340.39	0.00	7.31	0.00	0.00	219.50
<b>4th QTR Totals</b>	<b>1720.00</b>	<b>82.45</b>	<b>1637.55</b>	<b>108.00</b>	<b>1622.37</b>	<b>0.00</b>	<b>19.90</b>	<b>0.00</b>	<b>0.00</b>	<b>N/A</b>
2022 Totals	7254.74	233.31	7021.43	476.93	6826.44	0.00	78.46	0.00	0.00	219.50
2022 Total (adj)	7254.74	233.31	7021.43	476.93	6826.44	0.00	78.46	0.00	0.00	219.50

1st Qtr notes      Production well electric issue - unable pump / no sample

2nd Qtr notes

3rd Qtr notes      Meter malfunction

4th Qtr notes

(a)      Total Stormwater = Volume of precipitation that falls into producing mine pit and volume of precipitation that falls onto producing mine and flows over the land surface into the mine pit.

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MILL CREEK 2022 AUGMENTATION and GAUGE DATA

Start Date	Start Time	Stop Date	Stop Time	Begin Reading	End Reading	Augmentation Ac - Ft pumped	Stormwater Pumped AF	Mill Creek Stream gauge Reading	Time Read	Stream height	Stream flow
January 2022	No water Pumped to Mill creek					0.00					
February 2022	No water Pumped to Mill creek					0.00					
March 2022	No water Pumped to Mill creek					0.00					
April 2022	No water Pumped to Mill creek										
May 2022	No water Pumped to Mill creek										
June 2022	No water Pumped to Mill creek										
July 2022	No water Pumped to Mill creek										
August 2022	No water Pumped to Mill creek										
September 2022	No water Pumped to Mill creek										
October 2022	No water Pumped to Mill creek										
November 2022	No water Pumped to Mill creek										
December 2022	No water Pumped to Mill creek										
Total						0.00					

0.00 Pumped to Mill Creek  
 0.00 Augmented to Mill Creek  
 Stormwater collected entering pit  
 0 Stormwater pumped to Mill Creek

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North Troy Monthly Water Data Sheet

Rows 11-57 - Precipitation Data  
 Rows 60-76 - Water Data  
 Rows 70-84 - Pit Sump Volumes  
 Rows 91-105 - Settling Cell Evaporation  
 Rows 107-144 - Monthly Shipments  
 Rows 146-184 - Product Moisture Content

January Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS			
Hydrologic Soil Group	D		
Land Use	"gravel road"		
AMC Condition	II (ave)		
CN (pit fringe)	85	area draining into pit	
CN (pit)	100	area with direct interception	
S (pit fringe)	1.36363636	area draining into pit	
S (pit)	0	area with direct interception	
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement	
Pit fringe (area drains to pit)	77.00	subject to refinement	
Drainage to Pit (total area)	188.00	subject to refinement	

Date	Precip. in.	Quarry area		Fringe area		Daily		Runoff formula
		Runoff, in.	Evaporation, in.	Runoff, in.	Evaporation, in.	Runoff, in.	Evaporation, in.	
1-Jan	0.38	0.38	0.00	0.00	0.07	0.00	0.07	Runoff formula
2-Jan	0.00	0.00	0.00	0.00	0.05	0.00	0.05	Pe = (P-0.25)^2/(P+0.85)
3-Jan	0.00	0.00	0.00	0.00	0.07	0.00	0.07	S = (1000/CN)-10
4-Jan	0.00	0.00	0.00	0.00	0.15	0.00	0.15	
5-Jan	0.00	0.00	0.00	0.00	0.13	0.00	0.13	Blue cells contain formulas
6-Jan	0.00	0.00	0.00	0.00	0.07	0.00	0.07	
7-Jan	0.00	0.00	0.00	0.00	0.06	0.00	0.06	
8-Jan	0.06	0.06	0.00	0.00	0.06	0.00	0.06	
9-Jan	0.00	0.00	0.00	0.00	0.15	0.00	0.15	
10-Jan	0.00	0.00	0.00	0.00	0.06	0.00	0.06	
11-Jan	0.00	0.00	0.00	0.00	0.09	0.00	0.09	
12-Jan	0.00	0.00	0.00	0.00	0.08	0.00	0.08	
13-Jan	0.00	0.00	0.00	0.00	0.09	0.00	0.09	
14-Jan	0.00	0.00	0.00	0.00	0.13	0.00	0.13	
15-Jan	0.00	0.00	0.00	0.00	0.11	0.00	0.11	
16-Jan	0.00	0.00	0.00	0.00	0.06	0.00	0.06	
17-Jan	0.00	0.00	0.00	0.00	0.08	0.00	0.08	
18-Jan	0.00	0.00	0.00	0.00	0.18	0.00	0.18	
19-Jan	0.00	0.00	0.00	0.00	0.13	0.00	0.13	
20-Jan	0.00	0.00	0.00	0.00	0.09	0.00	0.09	
21-Jan	0.00	0.00	0.00	0.00	0.05	0.00	0.05	
22-Jan	0.00	0.00	0.00	0.00	0.06	0.00	0.06	
23-Jan	0.00	0.00	0.00	0.00	0.07	0.00	0.07	
24-Jan	0.00	0.00	0.00	0.00	0.08	0.00	0.08	
25-Jan	0.00	0.00	0.00	0.00	0.17	0.00	0.17	
26-Jan	0.00	0.00	0.00	0.00	0.09	0.00	0.09	
27-Jan	0.00	0.00	0.00	0.00	0.05	0.00	0.05	
28-Jan	0.00	0.00	0.00	0.00	0.08	0.00	0.08	
29-Jan	0.00	0.00	0.00	0.00	0.13	0.00	0.13	
30-Jan	0.00	0.00	0.00	0.00	0.11	0.00	0.11	
31-Jan	0.00	0.00	0.00	0.00	0.16	0.00	0.16	
sum	0.44	0.44	0.00	0.00	2.86	0.00	2.86	
Volume, ac-ft		4.87	0.00					
Total Vol, ac-ft		4.87						Pan Evaporation from Sulphur Mesonet

February Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS			
Hydrologic Soil Group	D		
Land Use	"gravel road"		
AMC Condition	II (ave)		
CN (pit fringe)	85	area draining into pit	
CN (pit)	100	area with direct interception	
S (pit fringe)	1.36363636	area draining into pit	
S (pit)	0	area with direct interception	
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement	
Pit fringe (area drains to pit)	77.00	subject to refinement	
Drainage to Pit (total area)	188.00	subject to refinement	

Date	Precip. in.	Quarry area		Fringe area		Daily		Runoff formula
		Runoff, in.	Evaporation, in.	Runoff, in.	Evaporation, in.	Runoff, in.	Evaporation, in.	
1-Feb	0.00	0.00	0.00	0.00	0.11	0.00	0.11	Runoff formula
2-Feb	0.00	0.00	0.00	0.00	0.01	0.00	0.01	Pe = (P-0.25)^2/(P+0.85)
3-Feb	0.00	0.00	0.00	0.00	0.03	0.00	0.03	S = (1000/CN)-10
4-Feb	0.32	0.32	0.00	0.00	0.06	0.00	0.06	
5-Feb	0.02	0.02	0.00	0.00	0.08	0.00	0.08	Blue cells contain formulas
6-Feb	0.00	0.00	0.00	0.00	0.1	0.00	0.1	
7-Feb	0.00	0.00	0.00	0.00	0.08	0.00	0.08	
8-Feb	0.00	0.00	0.00	0.00	0.13	0.00	0.13	
9-Feb	0.00	0.00	0.00	0.00	0.1	0.00	0.1	
10-Feb	0.00	0.00	0.00	0.00	0.1	0.00	0.1	
11-Feb	0.00	0.00	0.00	0.00	0.21	0.00	0.21	
12-Feb	0.00	0.00	0.00	0.00	0.17	0.00	0.17	
13-Feb	0.00	0.00	0.00	0.00	0.1	0.00	0.1	
14-Feb	0.00	0.00	0.00	0.00	0.22	0.00	0.22	
15-Feb	0.00	0.00	0.00	0.00	0.25	0.00	0.25	
16-Feb	0.00	0.00	0.00	0.00	0.18	0.00	0.18	
17-Feb	0.29	0.29	0.00	0.00	0.17	0.00	0.17	
18-Feb	0.00	0.00	0.00	0.00	0.07	0.00	0.07	
19-Feb	0.00	0.00	0.00	0.00	0.14	0.00	0.14	
20-Feb	0.00	0.00	0.00	0.00	0.3	0.00	0.3	
21-Feb	0.16	0.16	0.00	0.00	0.13	0.00	0.13	
22-Feb	0.11	0.11	0.00	0.00	0.21	0.00	0.21	
23-Feb	0.00	0.00	0.00	0.00	0.04	0.00	0.04	
24-Feb	0.00	0.00	0.00	0.00	0.02	0.00	0.02	
25-Feb	0.01	0.01	0.00	0.00	0.06	0.00	0.06	
26-Feb	0.02	0.02	0.00	0.00	0.06	0.00	0.06	
27-Feb	0.00	0.00	0.00	0.00	0.09	0.00	0.09	
28-Feb	0.00	0.00	0.00	0.00	0.12	0.00	0.12	
					0.00	0.00		
					0.00	0.00		
sum	0.99	0.99	0.00	0.00	3.46	0.00	3.46	
Volume, ac-ft		8.66	0.00					
Total Vol, ac-ft		8.66						Pan Evaporation from Sulphur Mesonet

March Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS			
Hydrologic Soil Group	D		
Land Use	"gravel road"		
AMC Condition	II (ave)		
CN (pit fringe)	85	area draining into pit	
CN (pit)	100	area with direct interception	
S (pit fringe)	1.36363636	area draining into pit	
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		Runoff, in.	Evaporation, in.	Runoff, in.	Evaporation, in.	Runoff, in.	Evaporation, in.	
1-Mar	0.00	0.00	0.00	0.00	0.14	0.00	0.14	Runoff formula
2-Mar	0.00	0.00	0.00	0.00	0.17	0.00	0.17	Pe = (P-0.25)^2/(P+0.85)
3-Mar	0.00	0.00	0.00	0.00	0.2	0.00	0.2	S = (1000/CN)-10
4-Mar	0.00	0.00	0.00	0.00	0.21	0.00	0.21	
5-Mar	0.00	0.00	0.00	0.00	0.33	0.00	0.33	Blue cells cc
6-Mar	0.10	0.10	0.00	0.00	0.12	0.00	0.12	
7-Mar	0.00	0.00	0.00	0.00	0.12	0.00	0.12	
8-Mar	0.00	0.00	0.00	0.00	0.05	0.00	0.05	
9-Mar	0.00	0.00	0.00	0.00	0.11	0.00	0.11	
10-Mar	0.00	0.00	0.00	0.00	0.18	0.00	0.18	
11-Mar	0.01	0.01	0.00	0.00	0.07	0.00	0.07	
12-Mar	0.00	0.00	0.00	0.00	0.13	0.00	0.13	
13-Mar	0.00	0.00	0.00	0.00	0.35	0.00	0.35	
14-Mar	0.00	0.00	0.00	0.00	0.16	0.00	0.16	
15-Mar	0.00	0.00	0.00	0.00	0.17	0.00	0.17	
16-Mar	0.00	0.00	0.00	0.00	0.24	0.00	0.24	
17-Mar	0.41	0.41	0.00	0.00	0.31	0.00	0.31	
18-Mar	0.00	0.00	0.00	0.00	0.15	0.00	0.15	
19-Mar	0.01	0.01	0.00	0.00	0.17	0.00	0.17	
20-Mar	0.00	0.00	0.00	0.00	0.35	0.00	0.35	
21-Mar	0.57	0.57	0.00	0.00	0.12	0.00	0.12	
22-Mar	0.00	0.00	0.00	0.00	0.1	0.00	0.1	
23-Mar	0.00	0.00	0.00	0.00	0.21	0.00	0.21	
24-Mar	0.00	0.00	0.00	0.00	0.18	0.00	0.18	
25-Mar	0.00	0.00	0.00	0.00	0.18	0.00	0.18	
26-Mar	0.00	0.00	0.00	0.00	0.23	0.00	0.23	
27-Mar	0.00	0.00	0.00	0.00	0.32	0.00	0.32	
28-Mar	0.00	0.00	0.00	0.00	0.36	0.00	0.36	
29-Mar	0.02	0.02	0.00	0.00	0.3	0.00	0.3	
30-Mar	0.47	0.47	0.00	0.00	0.15	0.00	0.15	
31-Mar	0.00	0.00	0.00	0.00	0.16	0.00	0.16	
sum	1.44	1.44	0.00	0.00	6.02	0.00	6.02	
Volume, ac-ft		14.71	0.00					
Total Vol, ac-ft		14.71						Pan Evaporation from Sulphur Mesonet

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April Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS			
Hydrologic Soil Group	D		
Land Use	"gravel road"		
AMC Condition	II (ave)		
CN (pit fringe)	88	area draining into pit	
CN (pit)	100	area with direct interception	
S (pit fringe)	1.363636	area draining into pit	
S (pit)	0	area with direct interception	
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement	**
Pit fringe (area drains to pit)	77.00	subject to refinement	**
Drainage to Pit (total area)	188.00	subject to refinement	

Date	Precip. in.	Quarry area Runoff, in.	Fringe area Runoff, in.	Daily Evaporation, in.	
1-Apr	0.06	0.06	0.00	0.21	Runoff formula
2-Apr	0.00	0.00	0.00	0.22	Pe = (P-0.2S)^2/(P+0.8S)
3-Apr	0.09	0.09	0.00	0.33	S = (1000/CN)-10
4-Apr	1.11	1.11	0.00	0.12	
5-Apr	0.01	0.01	0.00	0.23	Blue cells contain formulas
6-Apr	0.00	0.00	0.00	0.45	
7-Apr	0.00	0.00	0.00	0.28	
8-Apr	0.00	0.00	0.00	0.25	
9-Apr	0.00	0.00	0.00	0.34	
10-Apr	0.00	0.00	0.00	0.4	
11-Apr	0.00	0.00	0.00	0.22	
12-Apr	0.00	0.00	0.00	0.2	
13-Apr	0.00	0.00	0.00	0.3	
14-Apr	0.00	0.00	0.00	0.27	
15-Apr	0.00	0.00	0.00	0.38	
16-Apr	0.00	0.00	0.00	0.15	
17-Apr	0.00	0.00	0.00	0.21	
18-Apr	0.00	0.00	0.00	0.24	
19-Apr	0.08	0.08	0.00	0.27	
20-Apr	0.04	0.04	0.00	0.31	
21-Apr	0.00	0.00	0.00	0.25	
22-Apr	0.00	0.00	0.00	0.28	
23-Apr	0.00	0.00	0.00	0.24	
24-Apr	0.99	0.99	0.00	0.08	
25-Apr	0.00	0.00	0.00	0.24	
26-Apr	0.00	0.00	0.00	0.23	
27-Apr	0.00	0.00	0.00	0.25	
28-Apr	0.00	0.00	0.00	0.3	
29-Apr	0.00	0.00	0.00	0.25	
30-Apr	0.03	0.03	0.00	0.26	
sum	2.41	2.41	0.00	7.76	7.76
Volume, ac-ft		22.29	0.00		
Total Vol, ac-ft		22.29			Pan Evaporation from Sulphur Mesonet

May Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS			
Hydrologic Soil Group	D		
Land Use	gravel road		
AMC Condition	II (ave)		
CN (pit fringe)	88	area draining into pit	
CN (pit)	100	area with direct interception	
S (pit fringe)	1.363636	area draining into pit	
S (pit)	0	area with direct interception	
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement	**
Pit fringe (area drains to pit)	77.00	subject to refinement	**
Drainage to Pit (total area)	188.00	subject to refinement	

Date	Precip. in.	Quarry area Runoff, in.	Fringe area Runoff, in.	Daily Evaporation, in.	
1-May	0.00	0.00	0.00	0.24	Runoff formula
2-May	0.85	0.85	0.00	0.19	Pe = (P-0.2S)^2/(P+0.8S)
3-May	0.00	0.00	0.00	0.16	S = (1000/CN)-10
4-May	0.00	0.00	0.00	0.14	
5-May	0.25	0.25	0.00	0.12	Blue cells contain formulas
6-May	0.00	0.00	0.00	0.22	
7-May	0.00	0.00	0.00	0.25	
8-May	0.00	0.00	0.00	0.37	
9-May	0.00	0.00	0.00	0.36	
10-May	0.00	0.00	0.00	0.26	
11-May	0.00	0.00	0.00	0.29	
12-May	0.00	0.00	0.00	0.37	
13-May	0.04	0.04	0.00	0.3	
14-May	0.94	0.94	0.00	0.27	
15-May	0.00	0.00	0.00	0.34	
16-May	0.01	0.01	0.00	0.27	
17-May	0.00	0.00	0.00	0.27	
18-May	0.00	0.00	0.00	0.28	
19-May	0.00	0.00	0.00	0.35	
20-May	0.00	0.00	0.00	0.36	
21-May	0.03	0.03	0.00	0.17	
22-May	0.01	0.01	0.00	0.2	
23-May	0.00	0.00	0.00	0.12	
24-May	2.42	2.42	1.31	0.05	
25-May	0.52	0.52	0.00	0.07	
26-May	0.00	0.00	0.00	0.29	
27-May	0.00	0.00	0.00	0.26	
28-May	0.00	0.00	0.00	0.41	
29-May	0.00	0.00	0.00	0.41	
30-May	0.00	0.00	0.00	0.33	
31-May	0.00	0.00	0.00	0.33	
sum	5.07	5.07	1.31	8.05	8.05
Volume, ac-ft		46.90	8.43		
Total Vol, ac-ft		55.32			Pan Evaporation from Sulphur Mesonet

June Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS			
Hydrologic Soil Group	D		
Land Use	gravel road		
AMC Condition	II (ave)		
CN (pit fringe)	88	area draining into pit	
CN (pit)	100	area with direct interception	
S (pit fringe)	1.363636	area draining into pit	
S (pit)	0	area with direct interception	
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement	**
Pit fringe (area drains to pit)	77.00	subject to refinement	**
Drainage to Pit (total area)	188.00	subject to refinement	

Date	Precip. in.	Quarry area Runoff, in.	Fringe area Runoff, in.	Daily Evaporation, in.	
1-Jun	0.27	0.27	0.00	0.24	Runoff formula
2-Jun	1.49	1.49	0.57	0.14	Pe = (P-0.2S)^2/(P+0.8S)
3-Jun	0.00	0.00	0.00	0.15	S = (1000/CN)-10
4-Jun	0.00	0.00	0.00	0.23	
5-Jun	0.00	0.00	0.00	0.18	Blue cells contain formulas
6-Jun	0.00	0.00	0.00	0.3	
7-Jun	0.10	0.10	0.00	0.17	Rainfall Data for 6/1-6/9 taken from Mill Creek stream gage due to weather station malfunction.
8-Jun	0.73	0.73	0.00	0.14	
9-Jun	0.00	0.00	0.00	0.22	
10-Jun	0.17	0.17	0.00	0.28	
11-Jun	0.00	0.00	0.00	0.32	
12-Jun	0.00	0.00	0.00	0.41	
13-Jun	0.00	0.00	0.00	0.43	
14-Jun	0.00	0.00	0.00	0.46	
15-Jun	0.00	0.00	0.00	0.31	
16-Jun	0.00	0.00	0.00	0.31	
17-Jun	0.00	0.00	0.00	0.32	
18-Jun	0.00	0.00	0.00	0.31	
19-Jun	0.00	0.00	0.00	0.33	
20-Jun	0.00	0.00	0.00	0.39	
21-Jun	0.00	0.00	0.00	0.39	
22-Jun	0.00	0.00	0.00	0.28	
23-Jun	0.00	0.00	0.00	0.32	
24-Jun	0.00	0.00	0.00	0.44	
25-Jun	0.00	0.00	0.00	0.41	
26-Jun	0.00	0.00	0.00	0.34	
27-Jun	0.00	0.00	0.00	0.28	
28-Jun	0.00	0.00	0.00	0.23	
29-Jun	0.00	0.00	0.00	0.29	
30-Jun	0.00	0.00	0.00	0.36	
sum	2.76	2.76	0.57	8.96	8.96
Volume, ac-ft		25.53	3.68		
Total Vol, ac-ft		29.21			Pan Evaporation from Sulphur Mesonet

Oklahoma Water Resources Board

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July Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS		
Hydrologic Soil Group	D	
Land Use	gravel road	
AMC Condition	II (ave)	
CN (pit fringe)	88	area draining into pit
CN (pit)	100	area with direct interception
S (pit fringe)	1.363636	area draining into pit
S (pit)	0	area with direct interception
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement
Pit fringe (area drains to pit)	77.00	subject to refinement
Drainage to Pit (total area)	188.00	subject to refinement

Date	Quarry area Precip. in	Fringe area Runoff, in	Daily Runoff, in	Daily Evaporation, in
1-Jul	0.00	0.00	0.00	0.35
2-Jul	0.00	0.00	0.00	0.34
3-Jul	0.00	0.00	0.00	0.29
4-Jul	0.00	0.00	0.00	0.46
5-Jul	0.00	0.00	0.00	0.48
6-Jul	0.00	0.00	0.00	0.48
7-Jul	0.00	0.00	0.00	0.47
8-Jul	0.16	0.16	0.00	0.38
9-Jul	0.00	0.00	0.00	0.35
10-Jul	0.00	0.00	0.00	0.33
11-Jul	0.00	0.00	0.00	0.36
12-Jul	0.00	0.00	0.00	0.36
13-Jul	0.00	0.00	0.00	0.42
14-Jul	0.00	0.00	0.00	0.39
15-Jul	0.00	0.00	0.00	0.36
16-Jul	0.00	0.00	0.00	0.39
17-Jul	0.00	0.00	0.00	0.39
18-Jul	0.00	0.00	0.00	0.37
19-Jul	0.00	0.00	0.00	0.5
20-Jul	0.00	0.00	0.00	0.21
21-Jul	0.02	0.02	0.00	0.11
22-Jul	0.00	0.00	0.00	0.35
23-Jul	0.00	0.00	0.00	0.44
24-Jul	0.00	0.00	0.00	0.46
25-Jul	0.00	0.00	0.00	0.47
26-Jul	0.00	0.00	0.00	0.49
27-Jul	0.00	0.00	0.00	0.49
28-Jul	0.00	0.00	0.00	0.43
29-Jul	0.00	0.00	0.00	0.24
30-Jul	0.03	0.03	0.00	0.21
31-Jul	0.09	0.09	0.00	0.27
sum	0.30	0.30	0.00	11.64
Volume, ac-ft	2.78	0.00		
Total Vol, ac-ft	2.78			

Runoff formula  
 $Pe = (P-0.2S)^2 / (P+0.8S)$   
 $S = (1000/CN)-10$

Blue cells contain formulas

11.64

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	area draining into pit
CN (pit)	100	area with direct interception
S (pit fringe)	1.363636	area draining into pit
S (pit)	0	area with direct interception
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement
Pit fringe (area drains to pit)	77.00	subject to refinement
Drainage to Pit (total area)	188.00	subject to refinement

Date	Quarry area Precip. in	Fringe area Runoff, in	Daily Runoff, in	Daily Evaporation, in
1-Aug	0.00	0.00	0.00	0.3
2-Aug	0.00	0.00	0.00	0.49
3-Aug	0.00	0.00	0.00	0.53
4-Aug	0.00	0.00	0.00	0.41
5-Aug	0.00	0.00	0.00	0.47
6-Aug	0.00	0.00	0.00	0.46
7-Aug	0.00	0.00	0.00	0.42
8-Aug	0.00	0.00	0.00	0.35
9-Aug	0.00	0.00	0.00	0.31
10-Aug	0.00	0.00	0.00	0.3
11-Aug	0.00	0.00	0.00	0.34
12-Aug	0.00	0.00	0.00	0.31
13-Aug	0.00	0.00	0.00	0.37
14-Aug	0.00	0.00	0.00	0.36
15-Aug	0.00	0.00	0.00	0.33
16-Aug	0.00	0.00	0.00	0.3
17-Aug	0.00	0.00	0.00	0.17
18-Aug	0.00	0.00	0.00	0.21
19-Aug	0.01	0.01	0.00	0.25
20-Aug	0.00	0.00	0.00	0.27
21-Aug	0.99	0.99	0.00	0.08
22-Aug	0.01	0.01	0.00	0.18
23-Aug	0.00	0.00	0.00	0.17
24-Aug	0.00	0.00	0.00	0.18
25-Aug	0.00	0.00	0.00	0.25
26-Aug	0.00	0.00	0.00	0.23
27-Aug	0.00	0.00	0.00	0.26
28-Aug	0.00	0.00	0.00	0.34
29-Aug	0.15	0.15	0.00	0.3
30-Aug	0.00	0.00	0.00	0.2
31-Aug	0.00	0.00	0.00	0.22
sum	1.16	1.16	0.00	9.36
Volume, ac-ft	10.73	0.00		
Total Vol, ac-ft	10.73			

Runoff formula  
 $Pe = (P-0.2S)^2 / (P+0.8S)$   
 $S = (1000/CN)-10$

Blue cells contain formulas

9.36

Pan Evaporation from Sulphur Mesonet

Rainfall data

September Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS		
Hydrologic Soil Group	D	
Land Use	gravel road	
AMC Condition	II (ave)	
CN (pit fringe)	88	area draining into pit
CN (pit)	100	area with direct interception
S (pit fringe)	1.363636	area draining into pit
S (pit)	0	area with direct interception
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement
Pit fringe (area drains to pit)	77.00	subject to refinement
Drainage to Pit (total area)	188.00	subject to refinement

Date	Quarry area Precip. in	Fringe area Runoff, in	Daily Runoff, in	Daily Evaporation, in
1-Sep	0.04	0.04	0.00	0.11
2-Sep	0.00	0.00	0.00	0.25
3-Sep	0.00	0.00	0.00	0.27
4-Sep	0.30	0.30	0.00	0.16
5-Sep	0.00	0.00	0.00	0.18
6-Sep	0.00	0.00	0.00	0.22
7-Sep	0.00	0.00	0.00	0.3
8-Sep	0.00	0.00	0.00	0.24
9-Sep	0.00	0.00	0.00	0.24
10-Sep	0.00	0.00	0.00	0.24
11-Sep	0.00	0.00	0.00	0.25
12-Sep	0.00	0.00	0.00	0.21
13-Sep	0.00	0.00	0.00	0.29
14-Sep	0.00	0.00	0.00	0.36
15-Sep	0.00	0.00	0.00	0.36
16-Sep	0.00	0.00	0.00	0.34
17-Sep	0.00	0.00	0.00	0.34
18-Sep	0.00	0.00	0.00	0.38
19-Sep	0.00	0.00	0.00	0.3
20-Sep	0.00	0.00	0.00	0.31
21-Sep	0.00	0.00	0.00	0.27
22-Sep	0.00	0.00	0.00	0.27
23-Sep	0.00	0.00	0.00	0.3
24-Sep	0.00	0.00	0.00	0.32
25-Sep	0.00	0.00	0.00	0.32
26-Sep	0.00	0.00	0.00	0.24
27-Sep	0.00	0.00	0.00	0.28
28-Sep	0.00	0.00	0.00	0.35
29-Sep	0.00	0.00	0.00	0.33
30-Sep	0.00	0.00	0.00	0.28
31-Sep			0.00	
sum	0.34	0.34	0.00	8.31
Volume, ac-ft	3.15	0.00		
Total Vol, ac-ft	3.15			

Runoff formula  
 $Pe = (P-0.2S)^2 / (P+0.8S)$   
 $S = (1000/CN)-10$

Blue cells contain formulas

Evap data from Sulphur Mesonet

Pan Evaporation from Sulphur Mesonet

Rainfall data

Oklahoma Water Resources Board

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October Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS		
Hydrologic Soil Group	D	
Land Use	gravel road	
AMC Condition	II (ave)	
CN (pit fringe)	88	area draining into pit
CN (pit)	100	area with direct interception
S (pit fringe)	1.363636	area draining into pit
S (pit)	0	area with direct interception
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement
Pit fringe (area drains to pit)	77.00	subject to refinement
Drainage to Pit (total area)	188.00	subject to refinement

Date	Quarry area		Fringe area		Daily	
	Precip, in	Runoff, in	Precip, in	Runoff, in	Precip, in	Evaporation, in
1-Oct	0.00	0.00	0.00	0.00	0.00	0.2
2-Oct	0.00	0.00	0.00	0.00	0.00	0.19
3-Oct	0.00	0.00	0.00	0.00	0.00	0.21
4-Oct	0.00	0.00	0.00	0.00	0.00	0.21
5-Oct	0.00	0.00	0.00	0.00	0.00	0.18
6-Oct	0.00	0.00	0.00	0.00	0.00	0.2
7-Oct	0.02	0.02	0.02	0.00	0.00	0.17
8-Oct	0.02	0.02	0.02	0.00	0.00	0.11
9-Oct	0.02	0.02	0.02	0.00	0.00	0.08
10-Oct	0.03	0.03	0.03	0.00	0.00	0.14
11-Oct	0.10	0.10	0.10	0.00	0.00	0.13
12-Oct	0.00	0.00	0.00	0.00	0.00	0.28
13-Oct	0.00	0.00	0.00	0.00	0.00	0.21
14-Oct	0.00	0.00	0.00	0.00	0.00	0.24
15-Oct	0.00	0.00	0.00	0.00	0.00	0.24
16-Oct	0.75	0.75	0.00	0.00	0.00	0.11
17-Oct	0.00	0.00	0.00	0.00	0.00	0.2
18-Oct	0.00	0.00	0.00	0.00	0.00	0.16
19-Oct	0.00	0.00	0.00	0.00	0.00	0.13
20-Oct	0.00	0.00	0.00	0.00	0.00	0.16
21-Oct	0.00	0.00	0.00	0.00	0.00	0.3
22-Oct	0.00	0.00	0.00	0.00	0.00	0.4
23-Oct	0.00	0.00	0.00	0.00	0.00	0.34
24-Oct	1.40	1.40	0.51	0.00	0.00	0.1
25-Oct	0.89	0.89	0.00	0.00	0.00	0.14
26-Oct	0.00	0.00	0.00	0.00	0.00	0.14
27-Oct	0.00	0.00	0.00	0.00	0.00	0.23
28-Oct	0.69	0.69	0.00	0.00	0.00	0.05
29-Oct	0.02	0.02	0.00	0.00	0.00	0.06
30-Oct	0.00	0.00	0.00	0.00	0.00	0.08
31-Oct	0.01	0.01	0.00	0.00	0.00	0.09
sum	3.95	3.95	0.51	0.00	0.00	5.48
Volume, ac-ft		36.54		3.27		
Total Vol, ac-ft		39.81				

Runoff formula  
 $Pe = (P-0.2S)^2 / (P+0.8S)$   
 $S = (1000/CN)-10$

Blue cells contain formulas

Oct. Precip  
N. Troy Rain gauge

Volume, ac-ft  
Total Vol, ac-ft

Pan Evaporation from Sulphur Mesonet

\* Used Mesonet Pan Evaporation - Sulphur Rainfall data

November Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS		
Hydrologic Soil Group	D	
Land Use	gravel road	
AMC Condition	II (ave)	
CN (pit fringe)	88	area draining into pit
CN (pit)	100	area with direct interception
S (pit fringe)	1.363636	area draining into pit
S (pit)	0	area with direct interception
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement
Pit fringe (area drains to pit)	77.00	subject to refinement
Drainage to Pit (total area)	188.00	subject to refinement

Date	Quarry area		Fringe area		Daily	
	Precip, in	Runoff, in	Precip, in	Runoff, in	Precip, in	Evaporation, in
1-Nov	0.00	0.00	0.00	0.00	0.00	0.14
2-Nov	0.00	0.00	0.00	0.00	0.00	0.11
3-Nov	0.00	0.00	0.00	0.00	0.00	0.1
4-Nov	0.29	0.29	0.00	0.00	0.00	0.06
5-Nov	0.01	0.01	0.00	0.00	0.00	0.11
6-Nov	0.00	0.00	0.00	0.00	0.00	0.18
7-Nov	0.00	0.00	0.00	0.00	0.00	0.06
8-Nov	0.00	0.00	0.00	0.00	0.00	0.05
9-Nov	0.00	0.00	0.00	0.00	0.00	0.17
10-Nov	0.03	0.03	0.00	0.00	0.00	0.04
11-Nov	0.11	0.11	0.00	0.00	0.00	0.09
12-Nov	0.00	0.00	0.00	0.00	0.00	0.08
13-Nov	0.00	0.00	0.00	0.00	0.00	0.1
14-Nov	0.71	0.71	0.00	0.00	0.00	0.04
15-Nov	0.01	0.01	0.00	0.00	0.00	0.07
16-Nov	0.00	0.00	0.00	0.00	0.00	0.07
17-Nov	0.00	0.00	0.00	0.00	0.00	0.08
18-Nov	0.00	0.00	0.00	0.00	0.00	0.11
19-Nov	0.00	0.00	0.00	0.00	0.00	0.07
20-Nov	0.00	0.00	0.00	0.00	0.00	0.06
21-Nov	0.00	0.00	0.00	0.00	0.00	0.07
22-Nov	0.00	0.00	0.00	0.00	0.00	0.05
23-Nov	0.55	0.55	0.00	0.00	0.00	0.02
24-Nov	0.14	0.14	0.00	0.00	0.00	0.03
25-Nov	0.00	0.00	0.00	0.00	0.00	0.08
26-Nov	1.28	1.28	0.00	0.00	0.00	0.04
27-Nov	0.00	0.00	0.00	0.00	0.00	0.06
28-Nov	0.00	0.00	0.00	0.00	0.00	0.1
29-Nov	0.00	0.00	0.00	0.00	0.00	0.21
30-Nov	0.00	0.00	0.00	0.00	0.00	0.08
31-Nov		0.00	0.00	0.00	0.00	
sum	3.13	3.13	0.00	0.00	0.00	2.53
Volume, ac-ft		28.95		0.00		
Total Vol, ac-ft		28.95				

Runoff formula  
 $Pe = (P-0.2S)^2 / (P+0.8S)$   
 $S = (1000/CN)-10$

Blue cells contain formulas

Nov. Precip  
N. Troy Rain gauge

Volume, ac-ft  
Total Vol, ac-ft

Pan Evaporation from Sulphur Mesonet

\* Used Mesonet Pan Evaporation - Sulphur Rainfall data

December Precipitation/Evaporation Data

PIT RUNOFF ASSUMPTIONS		
Hydrologic Soil Group	D	
Land Use	gravel road	
AMC Condition	II (ave)	
CN (pit fringe)	88	area draining into pit
CN (pit)	100	area with direct interception
S (pit fringe)	1.363636	area draining into pit
S (pit)	0	area with direct interception
Pit - Direct Interception (>95 ft deep)	111.00	subject to refinement
Pit fringe (area drains to pit)	77.00	subject to refinement
Drainage to Pit (total area)	188.00	subject to refinement

Date	Quarry area		Fringe area		Daily	
	Precip, in	Runoff, in	Precip, in	Runoff, in	Precip, in	Evaporation, in
1-Dec	0.00	0.00	0.00	0.00	0.00	0.12
2-Dec	0.00	0.00	0.00	0.00	0.00	0.06
3-Dec	0.01	0.01	0.00	0.00	0.00	0.15
4-Dec	0.08	0.08	0.00	0.00	0.00	0.06
5-Dec	0.00	0.00	0.00	0.00	0.00	0.13
6-Dec	0.00	0.00	0.00	0.00	0.00	0.04
7-Dec	0.31	0.31	0.00	0.00	0.00	0.02
8-Dec	0.25	0.25	0.00	0.00	0.00	0.02
9-Dec	0.01	0.01	0.00	0.00	0.00	0.1
10-Dec	0.01	0.01	0.00	0.00	0.00	0.04
11-Dec	0.00	0.00	0.00	0.00	0.00	0.03
12-Dec	0.04	0.04	0.00	0.00	0.00	0.02
13-Dec	0.77	0.77	0.00	0.00	0.00	0.13
14-Dec	0.00	0.00	0.00	0.00	0.00	0.08
15-Dec	0.00	0.00	0.00	0.00	0.00	0.08
16-Dec	0.00	0.00	0.00	0.00	0.00	0.08
17-Dec	0.00	0.00	0.00	0.00	0.00	0.07
18-Dec	0.00	0.00	0.00	0.00	0.00	0.1
19-Dec	0.00	0.00	0.00	0.00	0.00	0.1
20-Dec	0.00	0.00	0.00	0.00	0.00	0.04
21-Dec	0.00	0.00	0.00	0.00	0.00	0.04
22-Dec	0.00	0.00	0.00	0.00	0.00	0.1
23-Dec	0.00	0.00	0.00	0.00	0.00	0.04
24-Dec	0.00	0.00	0.00	0.00	0.00	0.03
25-Dec	0.00	0.00	0.00	0.00	0.00	0.08
26-Dec	0.00	0.00	0.00	0.00	0.00	0.12
27-Dec	0.00	0.00	0.00	0.00	0.00	0.1
28-Dec	0.00	0.00	0.00	0.00	0.00	0.23
29-Dec	0.00	0.00	0.00	0.00	0.00	0.12
30-Dec	0.00	0.00	0.00	0.00	0.00	0.08
31-Dec	0.00	0.00	0.00	0.00	0.00	0.11
sum	1.48	1.48	0.00	0.00	0.00	2.52
Volume, ac-ft		13.69		0.00		
Total Vol, ac-ft		13.69				

Runoff formula  
 $Pe = (P-0.2S)^2 / (P+0.8S)$   
 $S = (1000/CN)-10$

Blue cells contain formulas

Dec. Precip  
N. Troy Rain gauge

Volume, ac-ft  
Total Vol, ac-ft

Pan Evaporation from Sulphur Mesonet

\* Used Mesonet Pan Evaporation - Sulphur Rainfall data

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Monthly Water Data, ac-ft

	Water Diverted From Pit	Storm Water Entering Pit	Net Sump Volume Change	Groundwater Sent To Holding Basin	Groundwater Sent To 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 20060601A
January-22	599.84	4.07	0.00	3.47	596.38	0.00	0.42	3.03	0.61	0.00	0.00	0.00	0.00
February-22	338.68	8.60	0.00	8.53	330.15	0.00	0.49	2.71	0.37	0.00	0.00	0.00	0.00
March-22	747.52	14.71	0.00	21.60	725.91	0.00	0.85	3.95	0.46	0.00	0.00	0.00	0.00
April-22	663.40	22.29	0.00	24.83	638.60	0.00	1.74	3.77	0.37	0.00	0.00	0.00	0.00
May-22	615.50	55.32	0.00	88.87	526.62	0.00	1.80	3.52	0.39	0.00	0.00	0.00	0.00
June-22	624.70	29.21	0.00	61.53	563.17	0.00	2.01	3.29	0.50	0.00	0.00	0.00	0.00
July-22	605.00	2.78	0.00	67.00	538.00	0.00	2.61	3.06	2.35	0.00	0.00	0.00	0.00
August-22	628.10	10.73	0.00	56.10	572.00	0.00	2.10	3.90	2.96	0.00	0.00	0.00	0.00
September-22	712.00	3.15	0.00	37.00	675.00	0.00	1.86	3.88	5.57	0.00	0.00	0.00	0.00
October-22	672.00	39.81	0.00	29.00	643.00	0.00	1.23	3.25	1.61	0.00	0.00	0.00	0.00
November-22	664.00	28.95	0.00	33.00	631.00	0.00	0.57	3.42	2.51	0.00	0.00	0.00	0.00
December-22	384.00	13.69	0.00	46.00	338.00	0.00	0.56	4.06	2.68	0.00	0.00	0.00	0.00

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Settling Cell Evaporation and Infiltration

	FO2 East						FO2 West					FO3/FO4 South Settling Cell								
	Width, Ft	Length, Ft	Evaporation, ac-ft	Number of Production Days	Infiltration Rate, Ac-ft/day	Total Infiltration, Ac-ft	Width, Ft	Length, Ft	Evaporation, ac-ft	Number of Production Days	Infiltration Rate, Ac-ft/day	Total Infiltration, Ac-ft	Width, Ft	Length, Ft	Evaporation, ac-ft	Number of Production Days	Infiltration Rate, Ac-ft/day	Total Infiltration, Ac-ft	Total Evaporation, ac-ft	Total Infiltration, ac-ft
January-20	50	330	0.06		0.08	0.09	50	350	0.10	19.00	0.22	4.23	200	435	0.49	19.00	0.03	0.51	0.59	4.74
February-20	50	330	0.11	20.00	0.08	1.64	50	350	0.00		0.22	0.00	200	435	0.57	20.00	0.03	0.53	0.68	2.17
March-20	50	330	0.00	0.00	0.08	0.00	50	350	0.20	27.00	0.22	6.02	200	435	1.00	27.00	0.03	0.72	1.20	6.74
April-20	50	330	0.24	22.00	0.08	1.80	50	350	0.00		0.22	0.00	200	435	1.29	22.00	0.03	0.59	1.54	2.39
May-20	50	330	0.06		0.08	0.06	50	350	0.27	22.00	0.22	4.90	200	435	1.34	22.00	0.03	0.59	1.61	5.49
June-20	50	330	0.28	23.00	0.08	1.88	50	350	0.00		0.22	0.00	200	435	1.49	23.00	0.03	0.61	1.78	2.50
July-20	50	330	0.06		0.08	0.06	50	350	0.39	24.00	0.22	5.35	200	435	1.94	24.00	0.03	0.64	2.33	5.99
August-20	50	330	0.30	23.00	0.08	1.88	50	350	0.00		0.22	0.00	200	435	1.56	23.00	0.03	0.61	1.85	2.50
September-20	50	330	0.06		0.08	0.06	50	350	0.28	23.00	0.22	5.13	200	435	1.38	23.00	0.03	0.61	1.66	5.74
October-20	50	330	0.17	23.00	0.08	1.88	50	350	0.00		0.22	0.00	200	435	0.91	23.00	0.03	0.61	1.09	2.50
November-20	50	330	0.00		0.08	0.00	50	350	0.08	22.00	0.22	4.90	200	435	0.42	22.00	0.03	0.59	0.51	5.49
December-20	50	330	0.08	22.00	0.08	1.80	50	350	0.00		0.22	0.00	200	435	0.42	22.00	0.03	0.59	0.50	2.39

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July Shipments			August Shipments			September Shipments			October Shipments			November Shipments			December Shipments		
	Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped		Tons Shipped	Ac-ft of water shipped
Base Products Coarse	351	0.009	Base Products Coarse	64	0.002	Base Products Coarse	832	0.020	Base Products Coarse	34	0.001	Base Products Coarse	1,501	0.037	Base Products Coarse	5,782	0.142
Aggregates Fine	235,954	2.836	Aggregates Fine	299,115	3.595	Aggregates Fine	288,317	3.465	Aggregates Fine	250,895	3.015	Aggregates Fine	263,459	3.166	Aggregates Fine	279,668	3.361
Aggregates	6,780	0.215	Aggregates	9,506	0.302	Aggregates	12,327	0.392	Aggregates	7,315	0.232	Aggregates	6,916	0.220	Aggregates	17,683	0.562
	243,085	3.060		308,685	3.899		301,476	3.877		258,244	3.249		271,876	3.423		303,133	4.065

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