

2021 ANNUAL REPORT

Report 2021

North Troy Quarry

Mill Creek, OK

Vulcan Materials Company

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MAR 30 2023

Oklahoma Water Resources Board

VMC North Troy 2021 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-21	406.35	9.90	396.45	73.22	335.52	0.00	3.77	0.00	0.00	219.50
February-21	470.74	5.00	465.75	103.24	370.99	0.00	2.32	0.00	0.00	219.50
March-21	604.39	21.44	582.95	146.69	460.21	0.00	4.71	0.00	0.00	219.50
1st QTR Totals	1481.48	36.34	1445.14	323.15	1166.72	0.00	10.79	0.00	0.00	N/A
April-21	552.65	68.73	483.92	185.24	373.37	0.00	6.93	0.00	0.00	219.50
May-21	840.84	66.78	774.06	94.83	748.52	0.00	5.71	0.00	0.00	219.50
June-21	611.20	30.25	580.95	158.32	458.12	0.00	6.97	0.00	0.00	219.50
2nd QTR Totals	2004.69	165.75	1838.94	438.39	1580.01	0.00	19.62	0.00	0.00	N/A
July-21	756.02	49.10	706.92	11.97	750.35	0.00	7.52	0.00	0.00	219.50
August-21	173.58	59.58	114.00	59.54	122.99	0.00	6.44	0.00	0.00	219.50
September-21	1113.55	26.76	1086.79	81.54	1040.29	0.00	6.51	0.00	0.00	219.50
3rd QTR Totals	2043.15	135.44	1907.71	153.05	1913.63	0.00	20.47	0.00	0.00	N/A
October-21	245.70	53.53	192.17	26.42	227.55	0.00	5.57	0.00	0.00	219.50
November-21	708.24	7.49	700.75	44.56	670.31	0.00	4.28	0.00	0.00	219.50
December-21	427.34	21.88	405.46	45.11	389.19	0.00	4.32	0.00	0.00	219.50
4th QTR Totals	1381.28	82.90	1298.38	116.09	1287.05	0.00	14.18	0.00	0.00	N/A
2021 Totals	6910.60	420.43	6490.17	1030.68	5947.41	0.00	65.06	0.00	0.00	219.50
2021 Total (adj)	6910.60	420.43	6490.17	1030.68	5947.41	0.00	65.06	0.00	0.00	219.50

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
MEPS	219.50 acre-ft	@ .2 per acre							
1st Qtr notes									
2nd Qtr notes									
3rd Qtr notes									
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 = -487.92 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