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Oklahoma Water Resources Board

May 1, 2023

Oklahoma Water Resources Board
3800 N. Classen
Oklahoma City, OK 73118
(405) 530-8800

Consumptive Water Use Report – Quarter 1 2023
Mine L.E.-1565 – Covia Corporation – Roff Facility

Dear Sir or Madam:

Enclosed please find Covia's consumptive water use report for the first quarter for 2023. As noted on the attached worksheet, the plant remains below our allocated equal proportionate share.

If you have any questions or require any additional information, please contact me.

Respectfully,


Jim Bonsall
Plant Manager

Consumptive Use of Pitwater Worksheet Quarter 1

2023

Pit Groundwater Volume		Amount	(gallons)				
1	Total volume of water pumped from the producing mine pit(s)	247,091,700					
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	50,652,802					
3	Portion of total precipitation that flows over the land surfaces that drains into the mine pit water	71,752,984					
4	Other non-pit waters pumped from the producing mine pit	68,772,000					
5	Add lines 2 through 4	191,177,786					
6	Pit Groundwater Volume (Line 1 - Line 5)	55,913,914					
Defined Elements of Consumptive Use		Amount	(gallons)				
7	Volume of pit water that is driven off (by drying) the mined material transported off the mine site	3,830,815					
8	Volume of pit water that is carried away with the mined material transported off the mining site (shipped)	0					
9	Volume of pit water that evaporates from the producing mine pit, process water ponds, and lined ponds (excluding structures used for augmentation)	0					
10	Volume of pit water that is used for other beneficial uses off the mine site	0					
11	Defined Elements of Consumptive Use of Pit Groundwater (add Lines 7 through 10)	3,830,815					
Pit Groundwater Balance		Amount	(gallons)				
12	Total groundwater from pit	52,083,098					
13	Groundwater Augmentation (Volume of pit groundwater returned to the groundwater basic or sub basin)	0					
14	Stream Augmentation (Volume of put groundwater discharged to a definite stream, during flow conditions that are less than or equal to 50% exceedance or median historic flows.	0					
15	Precipitation & Run-off (Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation)	0					
16	Recycled Pit Groundwater (Volume of pit groundwater returned to a mine pit or holding basin not included on lines 7 through 10)	52,083,098					
17	Other Non-Consumptive Losses (Including pit groundwater returned to the land surface from which surface run-off flows into a mine pit, and other losses not included in lines 7 through 10)	0					
18	Add lines 13 through 18	52,083,098					
19	Other Consumptive Use (adjusted) Line 12 minus 18	0					
Total Reported Consumptive Use Of Pit		Amount	(gallons)				
21	Total Reported Consumptive Use Of Pit (add Line 11 and Line 19)	3,830,815					
Facility's Equal Proportionate Share (EPS)		97,533,849		0.2	acre-feet	for	1,497 acres

Area of Pit(s):	205	(acres)	Rainfall:	9.1	(inches)
Area of Watershed Drainage:	298		Weighted CN:	78	
Retention Before Runoff (s):	2.9		Runoff:	6.36	
Area of Watershed Drainage Kite:	89		Weighted CN Kite:	66	
Retention Before Runoff (s) Kite:	5.2		Runoff:	4.90	
Area of Watershed Drainage HTC:	48		Weighted CN HTC:	78	
Retention Before Runoff (s) Kite:	2.7		Runoff:	6.51	
Tons Mined:	319,490		% Moisture	5.0	
Mesonet Pan Evaporation Method	0.08		Pan Evaporation (ms)		
	0.7		Lake Evaporation Coefficient		
Evaporation Areas	514252		Wingard		
	2545511		J		
	819570		G		
	0		Days		

Credits

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