

Corporate Environmental Affairs

September 16, 2020

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

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SEP 20 2020

Consumptive Water Use Report – Quarter 2, 2020
Mine L.E.-1565 – Covia Corporation – Roff Facility Oklahoma Water Resources Board

Dear Sir or Madam:

Enclosed please find Covia's consumptive water use report for the second quarter of 2020. 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 myself or Jim Bonsall at (580) 456-7772.

Respectfully,

David Caldwell
QC Supervisor

Attachments

CC: Plant
IRO

Consumptive Use of Pitwater Worksheet Quarter 2

Enter Values in Yellow

Pit Groundwater Volume		Amount	(gallons)
1	Total volume of water pumped from the producing mine pit(s)	601,521,300	
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	53,166,571	
3	Portion of total precipitation that flows over the land surfaces that drains into the mine pit water	111,969,172	
4	Other non-pit waters pumped from the producing mine pit	49,856,826	
5	Add lines 2 through 4	214,992,570	
6	Pit Groundwater Volume (Line 1 - Line 5)	386,528,730	

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	2,607,398	
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)	557,767	
10	Volume of pit water that is used for other beneficial uses off the mine site		
11	Defined Elements of Consumptive Use of Pit Groundwater (add Lines 7 through 10)	3,165,166	

Pit Groundwater Balance		Amount	(gallons)
12	Total groundwater from pit	386,528,730	
13	Groundwater Augmentation (Volume of pit groundwater returned to the groundwater basin or sub basin)	0	
14	Stream Augmentation (Volume of pit groundwater discharged to a definite stream, during flow conditions that are less than or equal to 50% exceedance or median historic flows.)		
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)	386,528,730	
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	386,528,730	
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)	3,165,166	

Facility's Equal Proportionate Share (EPS)	62,693,815	at	0.2	acre-feet	for	962	acres
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Area of Pit:		116	(acres)
Area of Watershed Drainage:	298		
Retention Before Runoff (s):	2.9		
Area of Watershed Drainage Kite:	89		
Retention Before Runoff (s) Kite:	5.2		

Rainfall:	16.88	(inches)
Weighted CN:	78	
Runoff:	13.84	
Weighted CN Kite:	66	
Runoff:	11.92517	

Tons Mined:	217,718	% Moisture	5.0
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ASHRAE Evaporation Model		A:	95
	B:	37.4	
	V:	5	(mi/hr)
	Pw:	0.69	(in-Hg)
	Pa:	0.522	(in-Hg)
	Hv:	970.4	(Btu/lb)
Evap Area:	10		(acre)