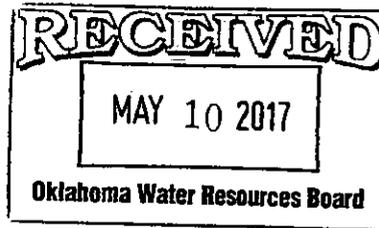




10 May 2017
17-ED-116

Mr. Anthony Mackey, Permitting Manager
Planning and Management Division
Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118



CONCRETE
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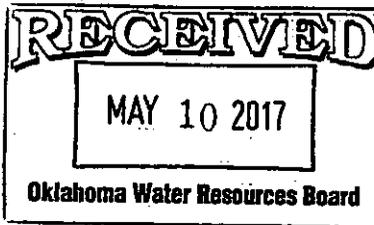
RE: Water Monitoring Plan Report, 1st Quarter 2017, for Dolese Bros. Co. Davis Quarry, Murray County, Oklahoma

Dear Mr. Mackey:

According to the Oklahoma Water Resources Board's Title 785, Chapter 30, Subchapter 15, Part 4, *Mines with Preexisting Exemptions*, Dolese Bros. Co. Davis Quarry qualifies as a mine with a preexisting exemption. As part of maintaining this exemption status, the regulations require us to do the following:

1. Adopt and implement a plan to monitor and report to the Board the accumulation and disposition of pit water during the previous calendar year;
 - The Davis Quarry has adopted and implemented such a plan, and the tables below serve to report to the Board the accumulation and disposition of pit water during 1st Quarter 2017.
2. Make quarterly and annual reports of the measured or reasonably estimated groundwater and surface water volumes, separately stated, entering the pit, of the water that is diverted from the pit, of the disposition of the water from the pit, and of the consumptive use of the water from the pit on or before the deadlines provided by Title 82 of Oklahoma Statutes, § 1020.2(E)(1);
 - The Davis Quarry has continued to fulfill this obligation by compiling and submitting this 1st Quarter 2017 Report. The specific information requested in this section is outlined in the tables shown below.
3. At any time after March 31, 2015, demonstrate to the satisfaction of the Board within the pertinent report or reports that the mine has not consumptively used during the previous twelve-month period, from the mining site, an amount of groundwater which combined with any amounts used from permitted groundwater wells exceeds the MEPS¹. Such demonstration may require providing to the Board a copy of the mine's monitoring plan and all of the data collected and procedures used to support the calculations and results reported.
 - After 31 March 2015, the Davis Quarry will be willing to demonstrate to the Board that the mine site has not consumptively used during the previous twelve-month period from the mining site, an amount of groundwater which combined with any amounts used from permitted groundwater wells exceeds the MEPS. Example calculations used in the First Quarterly Monitoring Report for 2013 have already been submitted to the OWRB for review and analysis.

¹ Mine's Equal Proportionate Share



Below, in Tables 1, 2, and 3, is shown the 1st Quarter 2017 summary data collected at the Davis Quarry.

Table 1
Accumulation & Disposition of Pit Water during 1st Quarter 2017

	<u>Groundwater</u> Acre-Feet	<u>Surface Water</u> Acre-Feet	<u>Total</u> Acre-Feet
Water Entering The Mine Pit	92.63	89.04	181.67
Water Diverted From The Mine Pit Into Fresh Water Lake	92.63	89.04	181.67
Water Removed From Fresh Water Lake	331.59	499.68	831.27
Water Returned To Fresh Water Lake	311.70	469.71	781.41
Water Returned To Land Surface Overlying ASA² Basin	55.24	83.24	138.48
Water Consumptively Used	37.26	(See Table 3 for Calculations)	

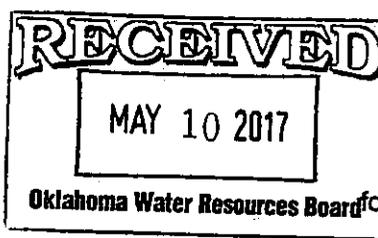
Table 2
Water Fluctuations in Fresh Water Lake during 1st Quarter 2017

Average Size of Lake	31.73 acres
Gain in Water Elevation	0.87 feet
Gain in Lake Volume	27.61 acre-feet

Table 3
Consumptive Use Summary for 1st Quarter 2017

	<u>Activity or Location</u>	<u>Amount of Pit Water Used,</u> Acre-Feet	<u>Percent Groundwater Content</u>	<u>Groundwater Component,</u> Acre-Feet
1	North Water Well	0.00	All	0.43
2	South Water Well	0.00	All	0.13
3	Material Moisture Hauled from Site	4.64	39.89%	1.85
4	Land Application for Roadway Dust Suppression	20.53	39.89%	8.19
5	Evaporation from Mine Pit	0.67	50.99%	0.34
6	Offsite Dewatering	65.97	39.89%	26.32
For 1st Quarter 2017,		Total Groundwater Consumption from ASA at Davis Quarry = 37.26 Acre-Feet		

² Arbuckle Simpson Aquifer



Below, in Table 4, please find the Groundwater Rights Summary for the Davis Quarry.

Table 4
Summary of Groundwater Rights for Davis Quarry

From Acreage on the Arbuckle-Simpson Aquifer And Included in the ASA Groundwater Rights (1,083 acres on ASA)*(0.2 ac-ft/acre) = 216.6 acre-feet on the ASA
From Acreage off the Arbuckle-Simpson Aquifer And Excluded from the ASA Groundwater Rights (937 acres off ASA)*(2.0 ac-ft/acre) = 1,874 acre-feet off the ASA

Based on the plan that we have adopted and implemented to monitor and report the accumulation and disposition of pit water, based on our actual consumptive use of groundwater quantities, and based on the timely submittal of all reports including this 1st Quarter Report for 2017, we believe that the Davis Quarry is in full compliance with all of the regulations that allow us to maintain its preexisting exemption.

General Information

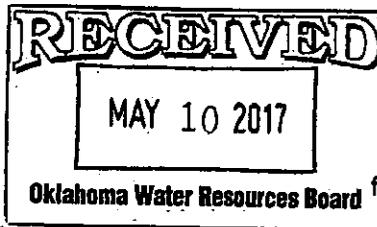
Our calculations show that Davis Quarry's total estimated groundwater consumption for 1st Quarter 2017 was 37.26 acre-feet. This equates to about 17.2% of Davis Quarry's Equal Proportionate Share (EPS) for the year. The reason the calculations show the groundwater consumption to be this high is because we were required to discharge off-site some water from the Fresh Water Lake (FWL) because of high water conditions as a result of rainfall received during the quarter. Approximately 71% of the water shown to be "consumed" during the quarter was due to offsite dewatering. The remaining amount that we consumed during the quarter (less than 29% of the total amount consumed) pertains to all other consumptive use activities which include groundwater usage from two (2) small water wells, material moisture hauled from the site, dust suppression waters, and evaporation of Mine Pit water. Please note that we have 216.6 acre-feet per year of groundwater rights available over the ASA at the Davis Quarry location, but our total available water rights for this site could also include other significant unused groundwater rights that we have at another site that overlies the ASA in Murray County.

During 1st Quarter 2017, the Davis Quarry logged 8.90 inches of rainfall, as measured using rain gauges. The effective runoff into the quarry lakes created from these rains was estimated to be 4.17 inches. Two of the rains received during the quarter were rather significant, both of which were in the 2.5-inch range, contributing to a significant percentage of the runoff into the Mine Pit.

The "calculated" groundwater percentage in the FWL was 39.89% for the quarter, and storm water comprised the other 60.11%.

The Annual Water Use Reports that we complete and submit to OWRB have always explained more of the details regarding the water calculations and how they were performed. They also detail how we have always tried to use the least controversial methods of calculating and estimating groundwater consumption at this facility. Since these detailed explanations were just covered in the annual report for 2016, I will not outline them in these quarterly reports.

Mr. Anthony Mackey
Oklahoma Water Resources Board
17-ED-116
Page Four



Water Monitoring Plan Report
1st Quarter 2017
for Dolese Bros. Co. Davis Quarry
Murray County, Oklahoma

Water management always has been and continues to be very important to us at Dolese Bros. Co., especially at the Davis Quarry. We understand that the Arbuckle Simpson Aquifer is a unique aquifer that must be protected. Our plant personnel make daily efforts to responsibly manage the waters within our quarry boundaries so that when they return to their nearby homes and properties, these same quality waters will be available for their personal and community uses.

Please contact me if you have any questions or comments concerning this submittal. Thank you.

Sincerely,
DOLESE BROS. CO.

A handwritten signature in cursive script that reads "Daniel E. Becker".

Daniel E. Becker, P.E.
Environmental Engineer

dh

cc: - Mr. Matt Cogburn, Oklahoma Water Resources Board, 3800 North Classen Boulevard,
Oklahoma City, OK 73118