



29 June 2024  
24-HSE-049

Mr. Jason Tutkowski  
Oklahoma Water Resources Board  
3800 North Classen Boulevard  
Oklahoma City, OK 73118

OKLAHOMA WATER RESOURCES BOARD

RECEIVED

JUN 29 2024

CONCRETE  
SAND & GRAVEL  
STONE  
BLOCK  
MASONRY

RE: Water Monitoring Plan Report, 1<sup>st</sup> Quarter 2024, for Dolese Bros. Co. Big Canyon Quarry, Murray County, Oklahoma

---

Dear Mr. Tutkowski:

According to the Oklahoma Water Resources Board's Title 785, Chapter 30, Subchapter 15, Part 4, *Mines with Preexisting Exemptions*, Dolese Bros. Co. Big Canyon 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 Big Canyon 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 1<sup>st</sup> Quarter 2024.
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).
  - Mining operations were suspended at this quarry before SB597 was passed. All permits were kept active, and operations resumed earlier this year. The third quarter is the first quarter with mining activity taking place. Product has not been sold or transported off site.
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 Mine's Equal Proportionate Share (MEPS). Such demonstration may require providing to the Board a copy of the mine's monitoring plan and all the data collected and procedures used to support the calculations and results reported.
  - The Big Canyon 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.

Using OWRB's Appendix C, our calculations show that Big Canyon Quarry's total estimated groundwater consumption for 1<sup>st</sup> Quarter 2024 was 0.75 acre-feet. As mentioned earlier, we have not sold or transported any material off the site. We are still in the process of reopening this location and our consumptive use of groundwater is extremely low. Our three sources of "consumptive use" in order or magnitude are: evaporation from the pit, water used for land application of dust suppression, and water used for dust suppression on the plant.

**DOLESE BROS. CO.**

8300 N. Oklahoma Ave  
Oklahoma City, OK 73114  
405.235.2311

**dolese.com**

During the 1<sup>st</sup> quarter, the largest individual consumptive use was evaporation from the pit at 2.55 acre-feet. Dust suppression accounted for 2.89 acre-feet of consumptive use. The dust suppression water is used on the haul road, land applied when material is being brought from the pit, and dust suppression on the processing plant. This dust suppression accounts for 1.88 and 1.01 acre-feet of consumptive use respectively.

The lake-evaporation in acre-feet was calculated from the pan-evaporation for the quarter from Mesonet. The quarterly lake-evaporation was 2.55 acre-feet. This evaporation is offset by direct and indirect precipitation into the pit. Direct precipitation accounted for an addition of 1.59 acre-feet and indirect precipitation accounted for 0.55 acre-feet.

Our total consumptive use, as defined in SB597, is 0.75 acre-feet for the quarter. We are allowed 286.8 acre-feet per year from 1,434 acres of land that overlies the ASA. We often combine this water right with our water right from our Davis Quarry when evaluating water use in the ASA for the year. It is expected that this use will have a substantial increase during the second quarter due to the need to discharge water from our pit and the beginning of sales from the quarry.

As we have stated for many quarters in our Davis reports, water management always has been and continues to be very important to us at Dolese Bros. Co., especially at the Big Canyon and Davis Quarries. 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 feel free to contact me if you have any questions or comments concerning this submittal. Thank you.

Sincerely,

Dolese Bros. Co.

*Remington Butler*

Remington Butler  
Environmental Engineer

RECEIVED

JUN 29 2024

OKLAHOMA WATER RESOURCES BOARD

cc: Mr. Chris Neel, Oklahoma Water Resources Board  
Mr. Matt Cogburn, Oklahoma Water Resources Board

---

Email: [rbutler@dolese.com](mailto:rbutler@dolese.com)  
Telephone: (405) 231-0787