DOLESE

CONCRETE

SAND & GRAVEL

STONE

BLOCK

MASONRY

RECEIVED

12/31/2025

OKLAHOMA WATER RESOURCES BOARD

31 December 2025
25-HSE-084

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

RE: Water Monitoring Plan Report, 3rd Quarter 2025, for Dolese Bros. Co. Davis 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. 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 3rd Quarter 2025.
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 3rd Quarter 2025 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 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.
    - 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.

**DOLESE BROS. CO.**

8300 N. Oklahoma Ave

Oklahoma City, OK 73114

405.235.2311

***dolese.com***

RECEIVED



12/31/2025

OKLAHOMA WATER RESOURCES BOARD

Using OWRB's Appendix C, our calculations show that Davis Quarry's total estimated groundwater consumption for 3rd Quarter 2025 was -33.1 acre-feet. This negative value reflects the fact that we captured more stormwater in our pits than we used for the quarter. This is a fairly substantial deviation from past reports. While this value may not feel right, it is logical that we capture more water than we use. We are positioned on top of an uplift in the western lobe of the Arbuckle-Simpson Aquifer and we have a very large drainage area that feeds our pits. We don't currently see any water that seeps up from the floor of our mine. Our active pit sits around 100' feet below the surface of our freshwater lake (an inactive pit) and we see water come through the wall that separates them. We also see water seeping out of laminations in the wall after precipitation events, but these are typically dry.

We tested our freshwater lake over a long weekend to see if more water left the pond than what was expected through evaporation alone. This is the criteria set to determine whether you can ignore evaporation from a pit's consumptive use calculations. There is some logic to this. If a pit or augmentation basin is contributing water to an aquifer, the aquifer is better off than without it from a volume standpoint and the evaporation shouldn't count against the producer. During our test, the freshwater lake lost more water than was expected from evaporation. This makes sense because we can see a considerable amount of water coming out of the wall that acts like the dam between our freshwater lake and our pit. We do not take into account the evaporation, but this wouldn't affect the calculations provided by the OWRB in our scenario.

The sources of our water use in order of magnitude are: evaporation from the pits, water used for land application of dust suppression, moisture adhering to material transported off site, and water used for dust suppression on the plant. During the 3rd quarter, the quarry registered 45.3 acre-feet entering the pit from 6.8 inches of rain. This water includes 15.2 acre-feet of direct precipitation and 30.1 acre-feet of runoff from 303 acres of drainage area.

The lake-evaporation in acre-feet was calculated from the pan-evaporation for the quarter from Mesonet. The quarterly lake-evaporation was 5.2 acre-feet not including the freshwater lake and 31.4 acre-feet if the freshwater lake was included. We use the pan evaporation rate from the nearest Mesonet site (Sulphur) to calculate our lake evaporation rate. The Mesonet site is roughly 16 miles from our site, but I suspect the evaporation rate of our sheltered pits is lower than this site.

Our total consumptive use, as defined in SB597, is -33.1 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 Big Canyon Quarry when evaluating water use in the ASA for the year. We have had management and supervision changes at our Davis Quarry and I'm taking this opportunity to evaluate more accurate procedures.

As we have stated for many quarters in our Davis reports, water management has always 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

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

*Email:* rbutler@dolese.com
*Telephone:* (405) 231-0787

RECEIVED

12/31/2025

| | PIT GROUNDWATER VOLUME OKLAHOMA WATER RESOURCES BOARD | | |
|---|---|---|---|
| 1 | Total volume of water pumped from the producing mine pit(s) | | 12.28 |
| 2 | Volume of precipitation that falls onto the surface of water in the producing mining pit(s) | | 15.23 |
| 3 | Portion of total precipitation that flows over the land surface that drains into the mine pit water | | 30.10 |
| 4 | Other non-pit waters pumped from the producing mine pit | | 0.00 |
| 5 | Add lines 2 through 4 | | 45.33 |
| 6 | **Pit Groundwater Volume** Line 1 minus Line 5 | | -33.05 |
| | **DEFINED ELEMENTS OF CONSUMPTIVE USE** | | |
| 7 | Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site | | 0.00 |
| 8 | volume of pit groundwater that is carried away with the mined material transported off the mining site (shipped) | | 5.24 |
| 9 | Volume of pit groundwater that evaporates from the producing mine pit, process water ponds, and lined ponds (Excluding structures used for augmentation) | | 5.20 |
| 10 | Volume of pit groundwater that is used for other beneficial uses off the mine site | | 0.00 |
| 11 | **Defined Elements of Consumptive Use of Pit Groundwater** Add Lines 7 through 10 | | 10.44 |
| | **PIT GROUNDWATER BALANCE** | | |
| 12 | Line 6 minus Line 11 | | -43.49 |
| 13 | **Groundwater Augmentation** Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management Plan | **Credits** | 0.00 |
| 14 | **Stream Augmentation** Volume of pit groundwater discharged to a definite stream, during flow conditions that are less than or equal to 50% exceedance, pursuant to a Management Plan | | 0.00 |
| 15 | **Precipitation & Run-off** Volume of precipitation and surfce run-off into a recharge pit or holding pond used for augmentation | | 0.00 |
| 16 | **Recycled Pit Groundwater** Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10) | | 0.00 |
| 17 | **Other Non-Consumptive Losses** Including pit groundwater returned to the land surface from which surface runoff flows into a mine pit, and other losses (not included in lines 7 through 10) | | 0.00 |
| 18 | Add lines 13 through 17 | | 0.00 |
| 19 | **Other Consumptive Use (adjusted)** Line 12 minus Line 18 | | -43.49 |
| | **TOTAL REPORTED CONSUMPTIVE USE OF PIT** | | |
| 20 | **Total Net Reported Consumptive Use** Line 11 plus Line 19 | | -33.05 |