



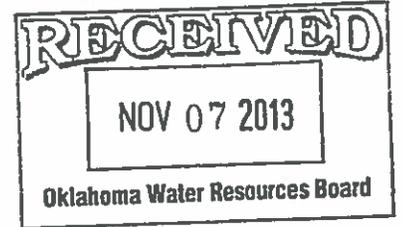
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DOLESE

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30 October 2013
13-ED-541



Mr. Kent Wilkins, Assistant Chief
Planning and Management Division
Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118

**RE: Adjustment to Second Quarter 2013 Water Monitoring Plan
Report, for Dolese Bros. Co. Davis Quarry, Murray County,
Oklahoma**

Dear Mr. Wilkins:

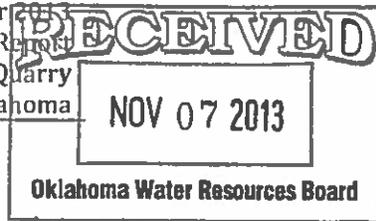
While working on the calculations for the next water monitoring submittal (for Third Quarter 2013), I realized that one of our pump's hour meter readings must have been recorded in error during the Second Quarter 2013 monitoring. The particular hour meter in question was the one associated with Pump #3, which supplies water to the Wash Plant. I determined that there was a problem by recognizing that three (3) of our pumps in that circuit should have been operated the same amount of hours, but one of them showed a significantly different reading from the other two.

To explain in a little more detail, Pumps #3, #8, and #11 must always run the same amount (plus or minus a small percentage). These pumps must all be run at the same time because they process the same water in line; that is, Pump #3 supplies water to the Wash Plant, and this water then gravity flows into a small metal Sump Bin; from the Sump Bin, it is pumped (using Pump #8) to the Sand Plant, where stone sand is removed using cyclones with the aid of Pump #11. Essentially, all of these pumps must be working the same number of hours for the plant to function properly.

When I noticed that Pumps #8 and #11 operated within 0.8 hours of each other during the entire quarter (Pump #8 ran for 293.2 hours, and Pump #11 ran for 294 hours) and Pump #3 showed a significantly higher hour reading, I knew that the hour reading from Pump #3 was wrong. From an engineering perspective, the only logical thing to do is to use 294 hours for Pump #3, and to recalculate all affected flow volumes as a result of this correction.

Mr. Kent Wilkins, Assistant Chief
Planning and Management Division
Oklahoma Water Resources Board
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Adjustment to Second Quarter 2013
Water Monitoring Plan Report
Dolese Bros. Co. Davis Quarry
Murray County, Oklahoma



A variety of things may have caused the error for the hour meter value inserted into the Excel spreadsheet used to calculate the total pump volume for Pump #3: human errors in retrieving the data from the pump's computer panel, or in transcribing the data onto the Excel spreadsheet; or possibly a glitch or malfunction in the computer system itself, as the plant representative said they had noted some problems with the meter and as a result he decided to log the last known reading and zero-out the meter to re-start it. Regardless, an error was made and recognized, and adjustments to the Second Quarter 2013 Water Monitoring Report were necessary.

Please find enclosed a revised report for the 2013 Second Quarter Water Monitoring Report for the subject facility. All affected flow volumes that were in error have been corrected; these were only in Table 1.

As we work our way through the complex process of monitoring water at our facility, we expect to encounter a few problems along the way. However, we will learn from these problems, and we will fine-tune our water monitoring system so that it will effectively and reliably track our uses of water at this site to the best of our abilities.

Please contact me if you would like to discuss this matter any further, and I would be more than happy to stop by your office with drawings and calculations that might better explain this situation.

Sincerely,
DOLESE BROS. CO.


Daniel E. Becker, P.E.
Environmental Engineer

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Attachment: Revised Table 1, Table 2, Table 3, and Table 4
*from Dolese Letter 13-ED-488 dated 19 September 2013, Water
Monitoring Plan Report, 2nd Quarter 2013, Dolese Bros. Co. Davis
Quarry, Murray County, Oklahoma*

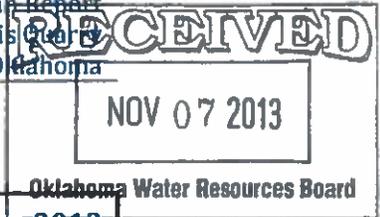


Table 1 (Revised from 13-ED-488, 19 September 2013)

Accumulation and Disposition of Pit Water during 2nd Quarter 2013		
Acre-Feet		
Water entering the Mine Pit		
Groundwater	16.64	
Surface Water	127.35	
Total	143.99	
Water diverted from the Mine Pit into Fresh Water Lake		
Groundwater	16.64	
Surface Water	127.35	
Total	143.99	
Water removed from Fresh Water Lake		
Groundwater	55.18	43.98
Surface Water	520.77	415.07
Total	575.95	459.05
Water returned to Fresh Water Lake		
Groundwater	40.16	
Surface Water	379.06	
Total	419.22	
Water returned to Land Surface overlying Arbuckle Simpson Aquifer (ASA) basin		
Groundwater	13.20	2.00
Surface Water	124.60	18.90
Total	137.8	20.90
Water consumptively used		
Groundwater (See Table 3 for calculations)	2.98	

Table 2 (Revised from 13-ED-488, 19 September 2013)

Water Fluctuations in the Fresh Water Lake during 2nd Quarter 2013	
Average Size of Lake during Quarter	28.3 acres
Gain in Water Elevation	5.16 feet
Gain in Lake Volume	146 acre-feet

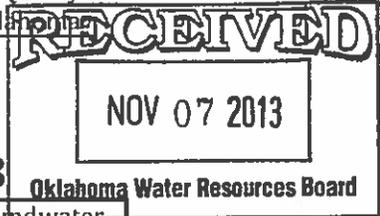


Table 3 (Revised from 13-ED-488, 19 September 2013)

Consumptive Use Summary for 2QTR13

Activity or Location	Amount of Pit Water Used, Acre-Feet	Percent Ground-Water	Groundwater Component, Acre-Feet
1 North Water Well	0.00	All	1.13
2 South Water Well	0.00	All	0.26
3 Material Moisture Hauled from Site	3.42	9.58% *(0.0958)	0.33
4 Land Application for Roadway Dust Suppression	12.85	9.58% *(0.0958)	1.23
5 Evaporation from Mine Pit	0.25	11.56% *(0.1156)	0.04
For 2QTR13, Total Groundwater Consumption from ASA at Davis Quarry = 2.98 Acre-Feet			

Table 4 (Revised from 13-ED-488, 19 September 2013)

Groundwater Rights

Davis Quarry Groundwater Rights

From Acreage ON the Arbuckle-Simpson Aquifer
 And Included in the ASA Groundwater Rights:

$(1,083 \text{ acres on ASA}) * (0.2 \text{ ac-ft/acre}) = 216.6 \text{ acre-feet ON the ASA}$

From Acreage OFF the Arbuckle-Simpson Aquifer
 And Excluded from the ASA Groundwater Rights:

$(937 \text{ acres off ASA}) * (2.0 \text{ ac-ft/acre}) = 1,874 \text{ acre-feet OFF the ASA}$

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