

July 19, 2017

Oklahoma Water Resources Board  
Planning and Management Division  
3800 North Classen Boulevard  
Oklahoma City, OK 73118-2855

**RE: Arbuckle-Simpson Pit Water Report**

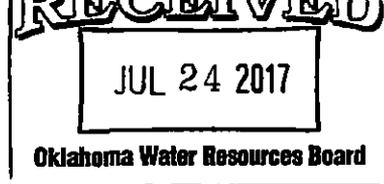
Enclosed please find US Silica's Pit Water Report for first quarter 2017. Please contact me at [matthews@ussilica.com](mailto:matthews@ussilica.com) or (580) 618-1421 if there are questions.

Best regards,



George W. Matthews  
Plant Manager

CC: David Clauson, USS, Chicago



# PIT WATER MONITORING AND USAGE REPORT

TYPE OF REPORT	<input checked="" type="checkbox"/> QUARTERLY	<input type="checkbox"/> ANNUAL
REPORTING PERIOD	QUARTER ENDING June 30, 2017	YEAR ENDING

COMPANY NAME	US Silica Company	FACILITY	Mill Creek Mine
ADDRESS	PO Box 36 4800 Highway 1 North Mill Creek, OK 74856	COUNTY	Johnston

## WATER RIGHT INFORMATION

SOURCE	1190	Arbuckle Simpson
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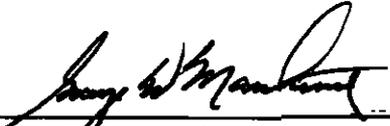
GROUND WATER PERMIT NUMBER	1974-266	ACRE-FEET PER YEAR *	
PERMITTED VOLUME	712		
PERMIT STATUS	<input checked="" type="checkbox"/> PERMANENT	<input type="checkbox"/> TEMPORARY	

\* Permitted volume includes additional water rights owned and leased applied to MEPS

STREAM WATER PERMIT NUMBER	1973-412	ACRE-FEET PER YEAR	
PERMITTED VOLUME	43		
PERMIT STATUS	<input checked="" type="checkbox"/> PERMANENT	<input type="checkbox"/> TEMPORARY	

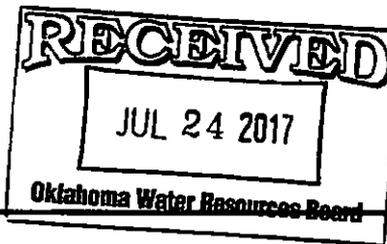
ACCUMULATION AND DISPOSITION OF PIT WATER	ACRE-FEET *
Groundwater entering the pit	746
Surface water entering the pit	64
Total water diverted from the pit	810
Disposition of water from the pit	
Driven off the mined material by drying	14
Evaporated from the active mine pit	1
Returned to the groundwater basin by recharge	497
Discharged to a definite stream	74
Returned to a mine pit or holding basin	0
Returned to the land surface from which runoff flows into a mine pit	0
Total consumptive use of mine pit water	-311

\* All volumes measured or reasonably estimated

 \_\_\_\_\_ Date 7/19/2017

Signature of Water Right Holder or Authorized Agent

PRINTED NAME	George W. Matthews
TITLE	Plant Manager
TELEPHONE	(580) 384-5241 x3015



1Q2017 US Silica Mill Creek Mine

OWRB WORKSHEET		
1	Total volume of water pumped from the producing mine pit(s)	1715.5
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	2.8
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water	60.8
4	Other non-pit waters pumped from the producing mine pit	906.0
5	Add lines 2 through 4	969.6
6	Pit Groundwater Volume Line 1 minus Line 5	746.0
<b>DEFINED ELEMENTS OF CONSUMPTIVE USE</b>		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	14.2
8	Volume of pit groundwater that is carried away with the mined material transported off the mining site	0.0
9	Volume of pit groundwater that evaporates from the producing mine pit, process water ponds, and lined ponds (Excluding structures used for augmentation)	1.4
10	Volume of pit groundwater that is used for other beneficial uses off the mine site	0.0
11	<b>Consumptive Use of Pit Groundwater</b> Add Lines 7 through 10	15.6
<b>PIT GROUNDWATER BALANCE</b>		
12	Line 6 minus Line 11	730.4
13	<b>Groundwater Augmentation</b> Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management	497.1
14	<b>Stream Augmentation</b> 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	74.0
15	<b>Precipitation &amp; Run-off</b> Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation	485.6
16	<b>Recycled Pit Groundwater</b> Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)	0.0
17	<b>Other Non-Consumptive Losses</b> Including pit groundwater returned to the land surface from which surface runoff flows into a mine pit, and other  (not included in lines 7 through 10)	0.0
18	Add lines 13 through 17	1056.7
19	<b>Other Consumptive Use (adjusted)</b> Line 12 minus Line 18	-326.4
<b>TOTAL REPORTED CONSUMPTIVE USE OF PIT</b>		
20	<b>Total Net Reported Consumptive Use</b> Line 11 plus Line 19	-310.8