



July 31, 2016

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 second quarter 2016.

The published Guidelines to Estimate the Consumptive Use of Pit Water were used in these calculations. As you can see, the calculation worksheet yielded a negative consumptive use for the quarter.

Best regards,

A handwritten signature in black ink, appearing to read "George W. Matthews".

George W. Matthews
Plant Manager

CC: David Clauson, USS, Chicago
Thornhill Group Incorporated, Austin

P.O. Box 36, 4800 State Highway 1 North, Mill Creek, OK 74856-0036

phone (800) 445-3950 (580) 384-5241 fax (580) 384-5216 web
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PIT WATER MONITORING AND USAGE REPORT

TYPE OF REPORT	<input checked="" type="checkbox"/> QUARTERLY	<input type="checkbox"/> ANNUAL
REPORTING PERIOD	QUARTER ENDING <u>June 30, 2016</u>	YEAR ENDING <u> </u>

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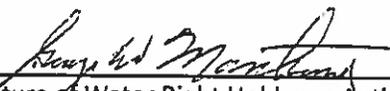
GROUND WATER PERMIT NUMBER	1974-266	
PERMITTED VOLUME	712	ACRE-FEET PER YEAR *
PERMIT STATUS	<input checked="" type="checkbox"/> PERMANENT	<input type="checkbox"/> TEMPORARY

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

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

ACCUMULATION AND DISPOSITION OF PIT WATER		ACRE-FEET *
Groundwater entering the pit		366
Surface water entering the pit		79
Total water diverted from the pit		445
Disposition of water from the pit		
	Driven off the mined material by drying	10
	Evaporated from the active mine pit	1
	Returned to the groundwater basin by recharge	26
	Discharged to a definite stream	38
	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		-231

* All volumes measured or reasonably estimated


Signature of Water Right Holder or Authorized Agent

7/31/2016
Date

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

SSWMCP Mill Creek Water Balance 2Q2016 new format

OWRB WORKSHEET		
1	Total volume of water pumped from the producing mine pit(s)	923.9
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)	3.3
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water	75.5
4	Other non-pit waters pumped from the producing mine pit	479.0
5	Add lines 2 through 4	557.9
6	Pit Groundwater Volume Line 1 minus Line 5	366.1
DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site	10.3
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)	1.3
10	Volume of pit groundwater that is used for other beneficial uses off the mine site	0.0
11	Consumptive Use of Pit Groundwater Add Lines 7 through 10	11.5
PIT GROUNDWATER BALANCE		
12	Line 6 minus Line 11	354.5
13	Groundwater Augmentation Volume of pit groundwater returned to the groundwater basin or subbasin, pursuant to a Management	25.5
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	37.8
15	Precipitation & Run-off Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation	533.4
16	Recycled Pit Groundwater Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)	0.0
17	Other Non-Consumptive Losses 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	596.7
19	Other Consumptive Use (adjusted) Line 12 minus Line 18	-242.1
TOTAL REPORTED CONSUMPTIVE USE OF PIT		
20	Total Net Reported Consumptive Use Line 11 plus Line 19	-230.6