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Oklahoma Water Resources Board

September 13, 2021

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

Attn: Matt Cogburn

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

Dear Mr. Cogburn,

Enclosed please find US Silica's Pit Water Report for second quarter 2021. Also enclosed are the water discharge reports for the months in which we claimed stream augmentation credits.

Please contact me at [quigley@ussilica.com](mailto:quigley@ussilica.com) or (580) 371-5254 if there are questions.

Best regards,

Jason Quigley  
Plant Manager

CC: David Olchawa, US Silica  
Wes Penn, US Silica  
Monty Tolbert, US Silica

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*  
[www.ussilica.com](http://www.ussilica.com)

# PIT WATER MONITORING AND USAGE REPORT

TYPE OF REPORT
REPORTING PERIOD

<input checked="" type="checkbox"/> QUARTERLY
QUARTER ENDING June 30, 2021

<input type="checkbox"/> ANNUAL
YEAR ENDING

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

FACILITY	Mill Creek Mine
COUNTY	Johnston

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## WATER RIGHT INFORMATION

SOURCE	1190	Arbuckle Simpson
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GROUND WATER PERMIT NUMBER	1974-266	
PERMITTED VOLUME	777	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 *
Total water diverted from the pit		454
Surface water entering the pit		147
Groundwater entering the pit		307
Groundwater diverted from the pit		307
	Returned to a mine pit or holding basin	0
	Returned to the land surface from which runoff flows into a mine pit	0
	Returned to the groundwater basin by recharge	-48
	Discharged to a definite stream for credit	15
	Driven off the mined material by drying	12
	Evaporated from the active mine pit	14
Total consumptive use of mine pit water		113

\* All volumes measured or reasonably estimated

Signature of Water Right Holder or Authorized Agent

Date

PRINTED NAME	Jason Quigley
TITLE	Plant Manager
TELEPHONE	(580) 371-5254

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## U.S. Silica Mill Creek Plant

### Discharge Log

Out Fall 006

Apr-21

Day	Time 24 hr Clock	Gate Open/ Closed	Dis charge Depth Inches	Dis charge Rate (CFS)	Dis charge Rate (MGD)	Daily Dischg (Ac-Ft)	Mill Creek Flow Rate (CFS)	Stream Aug- ment Credit (Ac-Ft)	Gist Guage Rod Feet	Johnson Guage Rod Feet
1	12:10	Open	1		0.146	0.45	6.78	0.00	4.30	2.40
2		Open	1		0.146	0.45	7.08	0.00		
3		Open	1		0.146	0.45	7.38	0.00		
4		Open	1		0.146	0.45	7.69	0.00		
5	11:30	Open	2		0.453	1.39	7.69	0.00	4.30	2.60
6		Open	2		0.453	1.39	7.69	0.00		
7	12:30	Open	2		0.453	1.39	7.38	0.00	4.30	2.60
8	11:25	Open	3		0.807	2.48	6.49	0.00	4.30	2.70
9		Open	3		0.807	2.48	6.21	0.00		
10		Open	3		0.807	2.48	6.78	0.00		
11		Open	3		0.807	2.48	7.08	0.00		
12	12:05	Open	4		1.224	3.76	5.42	0.00	4.30	2.80
13		Open	3		0.807	2.48	5.69	0.00		
14	11:30	Open	3		0.807	2.48	11.70	0.00	4.30	2.70
15	12:00	Open	3		0.807	2.48	7.16	0.00	4.30	2.70
16	11:45	Open	3		0.807	2.48	5.42	0.00	4.30	2.70
17		Open	2		0.453	0.00	5.42	0.00		
18		Open	2		0.453	0.00	3.95	0.00		
19	13:15	Open	2		0.453	1.39	3.10	1.39	4.30	2.60
20		Open	3		0.807	2.48	2.91	2.48		
21		Open	3		0.807	2.48	2.19	2.48		
22		Open	4		1.224	3.76	2.19	3.76		
23		Open	5		1.757	5.39	3.10	5.39		
24	7:30	Open	6		2.283	7.01	33.60	0.00	4.30	3.00
25		Open	5		1.757	5.39	23.40	0.00		
26	14:15	Open	4		1.224	3.76	11.30	0.00	4.30	2.80
27		Open	4		1.224	3.76	7.48	0.00		
28	10:30	Open	5		1.757	5.39	17.80	0.00	4.30	2.90
29	15:30	Open	9		4.194	12.87	465.00	0.00	4.50	3.30
30	19:00	Open	9		4.194	12.87	77.20	0.00	4.30	3.30
31		Open				0.00		0.00		
					32.21	96.1		15.49		

Max Discharge 4.194 MGD  
Avg. Discharge 1.074 MGD

NOTE:

### Lookup Table

1	0.2
2	0.7
3	1.2
4	1.9
5	2.6
6	3.4
7	4.3
8	5.2
9	6.2
10	7.2
11	8.3
12	9.5
13	10.6
14	11.8
15	13.1
16	14.4
17	15.7
18	17.1
19	18.5
20	20.0

### Discharge volumes

Depth "	Vol. MGD
1	0.146
2	0.453
3	0.807
4	1.224
5	1.757
6	2.283
7	2.852
8	3.462
9	4.194
10	4.882
11	5.697
12	6.457
13	7.247
14	8.171
15	9.023
16	9.903
17	10.930
18	11.860