

2021 - WATER CONSUMPTION

DATE	Lake Mitchell Influent MG	B-Y Rural Water Influent MG	Effluent to Water Towers MG
7/1/2021	0-MG	3.679	3.588
7/2/2021	0-MG	3.866	3.801
7/3/2021	0-MG	3.545	3.483
7/4/2021	0-MG	3.491	3.428
7/5/2021	0-MG	3.443	3.385
7/6/2021	0-MG	2.472	2.476
7/7/2021	0-MG	3.292	3.129
7/8/2021	0-MG	2.463	2.433
7/9/2021	0-MG	2.301	2.257
7/10/2021	0-MG	2.41	2.464
7/11/2021	0-MG	2.346	2.191
7/12/2021	0-MG	3.075	3.130
7/13/2021	0-MG	2.989	2.935
7/14/2021	0-MG	2.756	2.645
7/15/2021	0-MG	2.229	2.219
7/16/2021	0-MG	2.784	2.655
7/17/2021	0-MG	2.612	2.613
7/18/2021	0-MG	2.728	2.584
7/19/2021	0-MG	3.324	3.369
7/20/2021	0-MG	3.328	3.285
7/21/2021	0-MG	3.119	3.077
7/22/2021	0-MG	3.053	2.921
7/23/2021	0-MG	3.491	3.525
7/24/2021	0-MG	2.618	2.581
7/25/2021	0-MG	2.705	2.848
7/26/2021	0-MG	3.332	3.604
7/27/2021	0-MG	3.352	3.497
7/28/2021	0-MG	3.339	3.600
7/29/2021	0-MG	3.225	3.356
7/30/2021	0-MG	2.900	3.125
7/31/2021	0-MG	2.225	2.163
TOTALS	0-MG	92.492	92.367

<u>Date</u>	<u>Source</u>	<u>Site</u>	<u>Chlorine PPM</u> 0.5PPM-4.00PPM	<u>Bacteria</u>
7/6/2021	Dakota Medical Specialis	#6	2.57	Absent
7/6/2021	Erickson Oil	#7	2.01	Absent
7/6/2021	Culvers	#10	2.39	Absent
7/6/2021	City Library	#12	2.55	Absent
7/6/2021	Mitchell Tech Inst	#16	2.57	Absent
7/6/2021	Holy Family Church	#17	2.62	Absent
7/6/2021	Mitchell Middle School	#18	2.55	Absent
7/6/2021	GT Body Shop	#20	2.01	Present
7/12/2021	Arnies	#8	2.49	Absent
7/12/2021	Wesley Acres	#9	2.28	Absent
7/12/2021	Moose Lodge	#11	2.49	Absent
7/12/2021	City Park Department	#13	2.46	Absent
7/12/2021	Ampride	#14	2.05	Absent
7/12/2021	City Hall	#15	2.28	Absent
7/12/2021	Brady Memorial Home	#19	2.26	Absent
Average			2.37	Absent

MONTHLY -- B-Y WATER- GALLON AND CHEMICAL USAGE REPORT

MONTH --- July YEAR - 2021

Influent ----- 92,492-- Million Gallon's

Effluent ----- 92,367 -- Million Gallon's

Chemical costs for B-Y Water:

Chlorine usage ----- 0lbs. @ \$1.45 per lb. = \$0.00

Ammonia usage ----- 0 lbs. @ \$2.17 per lb. = \$0.00

Poly -phosphate----- 1705 lbs. @ \$1.75 per lb. = \$2983.75

Total = \$2983.75

Cost per Unit (750 gallon) = \$0.024

Cost per 1,000 gallons of water = \$0.032

CITY OF MITCHELL

MONTHLY WATER TREATMENT CHEMICAL COMSUMPTION REPORT MONTH / YEAR—July, 2021----- Jon Vermeulen – Utilities Superintendent

Coagulant Aid- (2187)	= <u>0</u> -Gals.	X	CONTRACT	=	<u>\$0.00</u>
Lime	= <u>0#</u> or <u>0</u> - TON'S	X	\$192.39/TON	=	<u>\$0.00</u>
Sodium Chlorite	= <u>0</u> -GAL.	X	CONTRACT	=	<u>\$0.00</u>
Fluoride	= <u>0</u> -GAL.	X	\$1.99/GAL.	=	<u>\$0.00</u>
Polymer (2386)	= <u>0</u> -GAL.	X	CONTRACT	=	<u>\$0.00</u>
Activated Carbon	= <u>0#</u> or <u>0</u> - TON'S	X	\$1,936.25/TON	=	<u>\$0.00</u>
Chlorine	= <u>0#</u> or <u>0</u> - TON'S	X	\$1.45/LB.	=	<u>\$0.00</u>
Poly Phosphate	= <u>1705#</u> or <u>.74</u> TON	X	\$1.75/LB.	=	<u>\$2,983.75</u>
Carbon Dioxide	= <u>0#</u> or <u>0</u> - TON'S	X	\$178.00/TON	=	<u>\$0.00</u>
Ammonia	= <u>0</u> or <u>0</u> - TON'S	X	\$2.17 /LB.	=	<u>\$0.00</u>
Pristine Contract	= <u>0</u> -MG of WATER	X	<u>.255/1000</u> GALS. RAW WATER	=	<u>\$0.00</u>

TOTAL = \$2,983.75

Raw Water Treated (LAKE) 0 MG-----or 0 MGD-----or----- PEAK DAY 0 MG
 Finished Water (EFFLUENT) 92.492 MG-----or 2.983 MGD-----or----- PEAK DAY 3.866 MG
 B-Y- Water (INFLUENT) 92.367 MG----- or 2.980 MGD-----or----- PEAK DAY 3.801 MG
 B-Y & RAW WATER TREATED – TOTAL= 92.367 MG --- or 2.980 MGD ----or ---- PEAK DAY 3.801 MG

Chemical cost = 2,983.75 = \$32.26 per MG or 0.024 cents per Unit (750 GALLONS).

CHEMICAL FEED RATES IN Mg/L

Coagulant Aid- (2187)	= <u>0</u> Mg/L --	= <u>0</u> Gallons / Raw Water
Lime	= <u>0</u> Mg/L	<u>0</u> lbs. / 7 lbs. Per Gallon/ Raw Water
Sodium Chlorite	= <u>0</u> Mg/L --	= <u>0</u> Gallons / Raw Water
Fluoride	= <u>0</u> Mg/L --	= <u>0</u> Gallons / Raw Water
Polymer (2386)	= <u>0</u> Mg/L --	= <u>0</u> Gallons / Raw Water
Activated Carbon	= <u>0</u> Mg/L --	= <u>0</u> lbs. / 4 lbs. per Gallon / Raw Water
Chlorine	= <u>0</u> Mg/L --	= <u>0</u> lbs. / 11.75 lbs. per Gallon / Raw Water
Poly Phosphate	= <u>2.17</u> Mg/L--	= <u>1705</u> lbs. / 10.5 lbs. per Gallon / Raw Water
Carbon Dioxide	= <u>0</u> Mg/L --	= <u>0</u> lbs. / 8.50 lbs. per Gallon / Raw Water
Ammonia	= <u>0</u> Mg/L --	= <u>0</u> lbs. / 5.15 lbs. per Gallon / Raw Water
Polymer	= <u>0</u> Mg/L --	= <u>0</u>

CITY OF MITCHELL

Monthly - Chemical Inventory at the Water Treatment Plant

Date: 8/1/21

Coagulant – (AF-1102) 903 Gallons

Lime 159,104 lbs. or 79.552 Ton's

Fluoride 814 Gallon's

Sodium Chlorite – (PHI-3125) 80 Gallon's

Polymer-(PHI-2386) 5 Gallon's
(AF-84500) 225 Gallon's

Activated Carbon 6,650 lbs. or 3.325 Ton's

Chlorine 881 lbs. or 0.441 Ton

Poly-phosphate 1430 lbs. or 0.715 Ton's

Carbon Dioxide 0 Lbs. or 0 Ton's

Ammonia 572.5 lbs. or 0.2825 Ton's

City of Mitchell Water Rate Charged

8/2/2021

	Base Rate (1,000 Gallons)	Added Rate (1,000 Gallons)	Combined Rate (1,000 Gallons)
Use below 2.65 MGD =	\$1.23	\$0.00	\$1.23
Use between 2.65 MGD to 2.90 MGD =	\$1.23	\$1.00	\$2.23
Use between 2.90 MGD to 3.15 MGD =	\$1.23	\$1.50	\$2.73
All use over 3.15 MGD =	\$1.23	\$2.00	\$3.23

JV

Month: 7 Year: 2021 Billing Month: 8

Day of Month	24 Hour Use(Kgal)	Use Above 2.65 MGD	Base Rate Use	Base Rate Cost	2.65 - 2.9 MGD Usage	2.65 - 2.9 MGD Added Cost	2.9 - 3.15 MGD Usage	2.9 - 3.15 MGD Added Cost	All Use Over 3.15 MGD	All Use Over 3.15 MGD Cost	Total Daily Cost
1	3,692,000	1,042,000	3,692,000	\$4,541.16	250,000	\$250.00	250,000	\$375.00	542,000	\$1,084.00	\$6,250.16
2	3,886,000	1,236,000	3,886,000	\$4,779.78	250,000	\$250.00	250,000	\$375.00	736,000	\$1,472.00	\$6,876.78
3	3,538,000	888,000	3,538,000	\$4,351.74	250,000	\$250.00	250,000	\$375.00	388,000	\$776.00	\$5,752.74
4	3,503,000	853,000	3,503,000	\$4,308.69	250,000	\$250.00	250,000	\$375.00	353,000	\$706.00	\$5,639.69
5	3,583,000	933,000	3,583,000	\$4,407.09	250,000	\$250.00	250,000	\$375.00	433,000	\$866.00	\$5,898.09
6	2,480,000	0	2,480,000	\$3,050.40	0	\$0.00	0	\$0.00	0	\$0.00	\$3,050.40
7	3,199,000	549,000	3,199,000	\$3,934.77	250,000	\$250.00	250,000	\$375.00	49,000	\$98.00	\$4,657.77
8	2,399,000	0	2,399,000	\$2,950.77	0	\$0.00	0	\$0.00	0	\$0.00	\$2,950.77
9	2,586,000	0	2,586,000	\$3,180.78	0	\$0.00	0	\$0.00	0	\$0.00	\$3,180.78
10	2,084,000	0	2,084,000	\$2,563.32	0	\$0.00	0	\$0.00	0	\$0.00	\$2,563.32
11	2,636,000	0	2,636,000	\$3,242.28	0	\$0.00	0	\$0.00	0	\$0.00	\$3,242.28
12	2,745,000	95,000	2,745,000	\$3,376.35	95,000	\$95.00	0	\$0.00	0	\$0.00	\$3,471.35
13	2,993,000	343,000	2,993,000	\$3,681.39	250,000	\$250.00	93,000	\$139.50	0	\$0.00	\$4,070.89
14	2,821,000	171,000	2,821,000	\$3,469.83	171,000	\$171.00	0	\$0.00	0	\$0.00	\$3,640.83
15	2,148,000	0	2,148,000	\$2,642.04	0	\$0.00	0	\$0.00	0	\$0.00	\$2,642.04
16	3,026,000	376,000	3,026,000	\$3,721.98	250,000	\$250.00	126,000	\$189.00	0	\$0.00	\$4,160.98
17	2,337,000	0	2,337,000	\$2,874.51	0	\$0.00	0	\$0.00	0	\$0.00	\$2,874.51
18	3,028,000	378,000	3,028,000	\$3,724.44	250,000	\$250.00	128,000	\$192.00	0	\$0.00	\$4,166.44
19	3,086,000	436,000	3,086,000	\$3,795.78	250,000	\$250.00	186,000	\$279.00	0	\$0.00	\$4,324.78
20	3,245,000	595,000	3,245,000	\$3,991.35	250,000	\$250.00	250,000	\$375.00	95,000	\$190.00	\$4,806.35
21	3,106,000	456,000	3,106,000	\$3,820.38	250,000	\$250.00	206,000	\$309.00	0	\$0.00	\$4,379.38
22	3,394,000	744,000	3,394,000	\$4,174.62	250,000	\$250.00	250,000	\$375.00	244,000	\$488.00	\$5,287.62
23	3,160,000	510,000	3,160,000	\$3,886.80	250,000	\$250.00	250,000	\$375.00	10,000	\$20.00	\$4,531.80
24	2,809,000	159,000	2,809,000	\$3,455.07	159,000	\$159.00	0	\$0.00	0	\$0.00	\$3,614.07
25	2,825,000	175,000	2,825,000	\$3,474.75	175,000	\$175.00	0	\$0.00	0	\$0.00	\$3,649.75
26	2,991,000	341,000	2,991,000	\$3,678.93	250,000	\$250.00	91,000	\$136.50	0	\$0.00	\$4,065.43
27	3,527,000	877,000	3,527,000	\$4,338.21	250,000	\$250.00	250,000	\$375.00	377,000	\$754.00	\$5,717.21
28	3,189,000	539,000	3,189,000	\$3,922.47	250,000	\$250.00	250,000	\$375.00	39,000	\$78.00	\$4,625.47
29	3,474,000	824,000	3,474,000	\$4,273.02	250,000	\$250.00	250,000	\$375.00	324,000	\$648.00	\$5,546.02
30	2,640,000	0	2,640,000	\$3,247.20	0	\$0.00	0	\$0.00	0	\$0.00	\$3,247.20
31	2,546,000	0	2,546,000	\$3,131.58	0	\$0.00	0	\$0.00	0	\$0.00	\$3,131.58
TOTALS	92676000	12,520,000	92,676,000	\$113,991.48	5,100,000	\$5,100.00	3,830,000	\$5,745.00	3,590,000	\$7,180.00	\$132,016.48

	Total Cost	Gallons Used	Base Cost	Cost Over 2.65MGD
Previous Month Read =	12,289,827,000			
Current Month Read =	12,382,503,000			
Current Month Use =	92,676,000			
Days billed in July =	\$132,016.48	92,676,000	\$113,991.48	\$18,025.00
Days carried from previous month =	\$0.00	0	\$0.00	\$0.00
Total bill for July =	\$132,016.48	92,676,000	\$113,991.48	\$18,025.00

Days that will be billed in August = \$0.00

Note: August billing meter was read on August 2nd therefore no July days will be included in September billing.