

## 2020 - WATER CONSUMPTION

DATE	Lake Mitchell Influent MG	B-Y Rural Water Influent MG	Effluent to Water Towers MG
2/1/2020	0-MG	1.204	1.631
2/2/2020	0-MG	1.558	1.423
2/3/2020	0-MG	1.112	1.047
2/4/2020	0-MG	1.622	1.674
2/5/2020	0-MG	1.105	1.165
2/6/2020	0-MG	1.593	1.671
2/7/2020	0-MG	1.138	1.183
2/8/2020	0-MG	1.660	1.590
2/9/2020	0-MG	1.089	0.993
2/10/2020	0-MG	1.603	1.699
2/11/2020	0-MG	1.233	1.344
2/12/2020	0-MG	1.54	1.390
2/13/2020	0-MG	1.433	1.579
2/14/2020	0-MG	1.377	1.220
2/15/2020	0-MG	1.467	1.618
2/16/2020	0-MG	1.393	1.251
2/17/2020	0-MG	1.121	1.064
2/18/2020	0-MG	1.587	1.639
2/19/2020	0-MG	1.07	0.952
2/20/2020	0-MG	1.618	1.696
2/21/2020	0-MG	1.248	1.344
2/22/2020	0-MG	1.721	1.590
2/23/2020	0-MG	1.185	1.258
2/24/2020	0-MG	1.732	1.635
2/25/2020	0-MG	1.161	1.301
2/26/2020	0-MG	1.529	1.385
2/27/2020	0-MG	1.216	1.359
2/28/2020	0-MG	1.505	1.351
2/29/2020	0-MG	1.133	1.039
<b>TOTALS</b>	<b>0-MG</b>	<b>39.953</b>	<b>40.091</b>

<u>Date</u>	<u>Source</u>	<u>Site</u>	<u>Chlorine PPM</u> 0.5PPM-4.00PPM	<u>Bacteria</u>
2/3/2020	Queen of Peace	#3	2.78	Absent
2/3/2020	East Cenex Store	#4	2.80	Absent
2/3/2020	Dakota Medical Specialis	#6	2.70	Absent
2/3/2020	Erickson Oil	#7	2.47	Absent
2/3/2020	Wesley Acres	#9	2.78	Absent
2/3/2020	Moose Lodge	#11	2.86	Absent
2/3/2020	Ampride	#14	2.48	Absent
2/3/2020	City Hall	#15	2.25	Absent
2/10/2020	Water Treatment Plant	#1	2.79	Absent
2/10/2020	Fire Dept	#2	2.59	Absent
2/10/2020	Jmart Sinclair	#5	2.73	Absent
2/10/2020	Arnies	#8	2.89	Absent
2/10/2020	Culvers	#10	2.65	Absent
2/10/2020	City Library	#12	2.60	Absent
2/10/2020	City Park Dept	#13	3.00	Absent
<b>Average</b>			<b>2.69</b>	<b>Absent</b>

# CITY OF MITCHELL

## MONTHLY WATER TREATMENT CHEMICAL COMSUMPTION REPORT MONTH / YEAR—February, 2020----- Jon Vermeulen – Utilities Superintendent

Coagulant Aid- (2187)	=	<u>0-Gals.</u>	X	<u>CONTRACT</u>	=	<u>\$0.00</u>
Lime	=	<u>0# or 0- TON'S</u>	X	<u>\$192.39/TON</u>	=	<u>\$0.00</u>
Sodium Chlorite	=	<u>0-GAL.</u>	X	<u>CONTRACT</u>	=	<u>\$0.00</u>
Fluoride	=	<u>0-GAL.</u>	X	<u>\$1.99/GAL.</u>	=	<u>\$0.00</u>
Polymer (2386)	=	<u>0-GAL.</u>	X	<u>CONTRACT</u>	=	<u>\$0.00</u>
Activated Carbon	=	<u>0# or 0- TON'S</u>	X	<u>\$1,936.25/TON</u>	=	<u>\$0.00</u>
Chlorine	=	<u>0# or 0- TON'S</u>	X	<u>\$1.45/LB.</u>	=	<u>\$0.00</u>
Poly Phosphate	=	<u>600# or .3 TON</u>	X	<u>\$1.75/LB.</u>	=	<u>\$1,050.00</u>
Carbon Dioxide	=	<u>0# or 0- TON'S</u>	X	<u>\$178.00/TON</u>	=	<u>\$0.00</u>
Ammonia	=	<u>0# or 0- TON'S</u>	X	<u>\$2.17 /LB.</u>	=	<u>\$0.00</u>
Pristine Contract	=	<u>0 –MG of WATER</u>	X	<u>.255/1000 GALS. RAW WATER</u>	=	<u>\$0.00</u>

TOTAL = \$1,050.00

Raw Water Treated (LAKE) 0 MG-----or 0 MGD-----or----- PEAK DAY 0 MG  
 Finished Water (EFFLUENT) 40.091 MG----or 1.382 MGD-----or----- PEAK DAY 1.699 MG  
 B-Y- Water (INFLUENT) 39.953 MG----- or 1.378 MGD-----or----- PEAK DAY 1.732 MG  
 B-Y & RAW WATER TREATED – TOTAL= 39.953 MG --- or 1.378 MGD ----or ----- PEAK DAY 1.732 MG

Chemical cost = 1050.00 = \$26.28 per MG or 0.02 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>1.5</u> Mg/L--	<u>600</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>

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

MONTH --- February      YEAR - 2020

Influent ----- 40.091-- Million Gallon's

Effluent ----- 39.953 -- Million Gallon's

Chemical costs for B-Y Water:

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

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

Poly -phosphate----- 600 lbs. @ \$1.75 per lb. = \$1,050.00

Total = \$1,050.00

Cost per Unit (750 gallon) = \$0.020

Cost per 1,000 gallons of water = \$0.026

# CITY OF MITCHELL

## Monthly - Chemical Inventory at the Water Treatment Plant

Date: 3/1/20

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 285 lbs. or 0.143 Ton

Poly-phosphate 5200 lbs. or 2.6 Ton's

Carbon Dioxide 0 Lbs. or 0 Ton's

Ammonia 673 lbs. or 0.336 Ton's

**B-Y WATER DISTRICT**  
 31039 428th AVENUE PO BOX 248  
 TABOR SD 57063

Phone (605) 463-2531 Toll Free (800) 286-3654  
 E-mail msmudder@hcinet.net or srwoods@hcinet.net

Office Hours:  
 Monday-Friday 8:00 A.M. to 4:30 P.M.

CITY OF MITCHELL  
 612 N. MAIN STREET  
 MITCHELL SD 57301

Service Address

Acct #  
 06771

Date Printed  
 MAR 2 20

**Monthly Billing Statement**

Date Read	Present Reading	Previous Reading	Total Gallons Used	Water Charge	Non Water Charge	Amount
MAR 1 20	11,335,107,000	11,297,047,000	38,060,000	40,343.60		40,343.60
						0.00

**Balance Due Upon Receipt \$ 40,343.60**

4207  
 241 JV 602-43330-42850

**If not paid by the 20th of the month, we will apply a \$25.00 late fee to your bill.**

B-Y Water District is an Equal Opportunity Employer and Provider  
 PLEASE RETURN BOTTOM PORTION WITH YOUR PAYMENT

CITY OF MITCHELL  
 612 N. MAIN STREET  
 MITCHELL SD 57301



MAR 2 20

CUST ACCT # 06771

Date Read	Present Reading	Previous Reading	Total Gallons Used	Water Charge	Non Water Charge	Amount
MAR 1 20	11,335,107,000	11,297,047,000	38,060,000	40,343.60		40,343.60
						0.00

Service Address

**Balance Due Upon Receipt \$ 40,343.60**

Remit to:

**B-Y WATER DISTRICT**  
 P O BOX 248  
 TABOR SD 57063

TOTAL PAYMENT \$ 40343.60

# City of Mitchell Water Rate Charged

3/2/2020

	Base Rate (1,000 Gallons)	Added Rate (1,000 Gallons)	Combined Rate (1,000 Gallons)
Use below 2.65 MGD =	\$1.06	\$0.00	\$1.06
Use between 2.65 MGD to 2.90 MGD =	\$1.06	\$1.00	\$2.06
Use between 2.90 MGD to 3.15 MGD =	\$1.06	\$1.50	\$2.56
All use over 3.15 MGD =	\$1.06	\$2.00	\$3.06

Month: 2      Year: 2020      Billing Month: 3

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	0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00
2	0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00
3	1,134,000	0	1,134,000	\$1,202.04	0	\$0.00	0	\$0.00	0	\$0.00	\$1,202.04
4	1,656,000	0	1,656,000	\$1,755.36	0	\$0.00	0	\$0.00	0	\$0.00	\$1,755.36
5	1,140,000	0	1,140,000	\$1,208.40	0	\$0.00	0	\$0.00	0	\$0.00	\$1,208.40
6	1,706,000	0	1,706,000	\$1,808.36	0	\$0.00	0	\$0.00	0	\$0.00	\$1,808.36
7	1,164,000	0	1,164,000	\$1,233.84	0	\$0.00	0	\$0.00	0	\$0.00	\$1,233.84
8	1,692,000	0	1,692,000	\$1,793.52	0	\$0.00	0	\$0.00	0	\$0.00	\$1,793.52
9	1,113,000	0	1,113,000	\$1,179.78	0	\$0.00	0	\$0.00	0	\$0.00	\$1,179.78
10	1,638,000	0	1,638,000	\$1,736.28	0	\$0.00	0	\$0.00	0	\$0.00	\$1,736.28
11	1,134,000	0	1,134,000	\$1,202.04	0	\$0.00	0	\$0.00	0	\$0.00	\$1,202.04
12	1,696,000	0	1,696,000	\$1,797.76	0	\$0.00	0	\$0.00	0	\$0.00	\$1,797.76
13	1,327,000	0	1,327,000	\$1,406.62	0	\$0.00	0	\$0.00	0	\$0.00	\$1,406.62
14	1,543,000	0	1,543,000	\$1,635.58	0	\$0.00	0	\$0.00	0	\$0.00	\$1,635.58
15	1,379,000	0	1,379,000	\$1,461.74	0	\$0.00	0	\$0.00	0	\$0.00	\$1,461.74
16	1,541,000	0	1,541,000	\$1,633.46	0	\$0.00	0	\$0.00	0	\$0.00	\$1,633.46
17	1,144,000	0	1,144,000	\$1,212.64	0	\$0.00	0	\$0.00	0	\$0.00	\$1,212.64
18	1,620,000	0	1,620,000	\$1,717.20	0	\$0.00	0	\$0.00	0	\$0.00	\$1,717.20
19	1,095,000	0	1,095,000	\$1,160.70	0	\$0.00	0	\$0.00	0	\$0.00	\$1,160.70
20	1,650,000	0	1,650,000	\$1,749.00	0	\$0.00	0	\$0.00	0	\$0.00	\$1,749.00
21	1,256,000	0	1,256,000	\$1,331.36	0	\$0.00	0	\$0.00	0	\$0.00	\$1,331.36
22	1,779,000	0	1,779,000	\$1,885.74	0	\$0.00	0	\$0.00	0	\$0.00	\$1,885.74
23	1,210,000	0	1,210,000	\$1,282.60	0	\$0.00	0	\$0.00	0	\$0.00	\$1,282.60
24	1,765,000	0	1,765,000	\$1,870.90	0	\$0.00	0	\$0.00	0	\$0.00	\$1,870.90
25	1,129,000	0	1,129,000	\$1,196.74	0	\$0.00	0	\$0.00	0	\$0.00	\$1,196.74
26	1,618,000	0	1,618,000	\$1,715.08	0	\$0.00	0	\$0.00	0	\$0.00	\$1,715.08
27	1,153,000	0	1,153,000	\$1,222.18	0	\$0.00	0	\$0.00	0	\$0.00	\$1,222.18
28	1,624,000	0	1,624,000	\$1,721.44	0	\$0.00	0	\$0.00	0	\$0.00	\$1,721.44
29	1,154,000	0	1,154,000	\$1,223.24	0	\$0.00	0	\$0.00	0	\$0.00	\$1,223.24
30	0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00
31	0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00
<b>TOTALS</b>	<b>38,060,000</b>	<b>0</b>	<b>38,060,000</b>	<b>\$40,343.60</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$40,343.60</b>

	Total Cost	Gallons Used	Base Cost	Cost Over 2.65MGD
Previous Month Read =	11,297,047,000			
Current Month Read =	11,335,107,000			
Current Month Use =	38,060,000			
Days billed in February =	\$40,343.60	38,060,000	\$40,343.60	\$0.00
Days carried from previous month =	\$0.00	0	\$0.00	\$0.00
Total bill for February =	\$40,343.60	38,060,000	\$40,343.60	\$0.00
Days that will be billed in March =	\$0.00			

Note: February billing meter was read on March 2nd therefore no February days will be included in April billing.  
 Note: 2/1 & 2/2 Previously billed with February billing.