



BRAINERD PUBLIC UTILITIES

8027 Highland Scenic Rd • P.O. Box 373 • Brainerd, Minnesota 56401
Business Office: 218.829.8726 ■ Repair Service: 218.829.2193
www.bpu.org

BRAINERD PUBLIC UTILITIES WASTEWATER TREATMENT CHARGES FOR THE CITY OF BAXTER FOR February-25

Baxter Monthly Flow and Loading Data

Number of days in billing period	31
Total flow for period (gallons)	19,292,000
Average Daily Flow (MGD)	0.622
CBOD (mg/L)	219.5
TSS (mg/L)	335.0
TP (mg/L)	8.2

I. Base Charges

Base Capital Charge	\$0.00
Base Operating Charge	77,503.62
Subtotal for Period	<u>\$77,503.62</u>

II. Excess Charges

Excess Capital Charge	\$0.00
Excess Operating Charges	
Excess Flow	0.00
Excess Loading	0.00
Excess Strength	0.00
Subtotal for Period	<u>\$0.00</u>

III. Base and Excess Charge Adjustments

('True up' from previous year based on actual Operating Costs)

Operating Charges Previously Billed	\$0.00
True-up Charges	0.00
Excess Operating Charge Adjustments	
Excess Flow Adjustment	0.00
Excess Loading Adjustment	0.00
Excess Strength Adjustment	0.00
Subtotal for Period	<u>\$0.00</u>
Total for Period	<u><u>\$77,503.62</u></u>

Monthly Input Data

for
February 2025

Current Month	February
Year	2025
Number of days in billing period	31

Flow

	Brainerd	Baxter	Total
Total flow for period (gallons)	35,439,000	19,292,000	54,731,000
Average Daily Flow (MGD)	1.143	0.622	1.766

Loading

Measurement Number	Brainerd				Baxter			
	CBOD (mg/L)	TSS (mg/L)	TP (mg/L)	TM (ng/L)	CBOD (mg/L)	TSS (mg/L)	TP (mg/L)	TM (ng/L)
1	147	254	6.95		241	369	8.40	
2	124	184	7.95		209	300	7.55	
3	158	223	7.75		281	342	8.90	
4	143	232	6.80		183	313	7.80	
5	122	209			201	362		
6	136	229			216	363		
7	160	249			247	371		
8	149	248			240	364		
9	167	263			215	378		
10	134	181			215	278		
11	139	316			200	278		
12	133	218			186	302		
13								
14								
15								
16								
17								
18								
19								
20								
Average Daily Loadings (conc.)	143	234	7.4	#DIV/0!	220	335	8.2	#DIV/0!
Average Daily Loadings (lbs/d)	1,361	2,231	70	-	1,140	1,740	42	-
Average Daily Loadings (mg/d)	-	-	-	#DIV/0!	-	-	-	#DIV/0!

Most Recent Twelve Months Input Data

Brainerd Most Recent Twelve Months Data

	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Average
Flow (MGD)	1.183	1.302	1.650	1.787	1.752	1.403	1.256	1.133	1.089	1.108	1.130	1.143	1.328
CBOD (lbs/d)	1,171	1,443	1,327	1,306	1,081	930	1,023	1,347	1,287	1,213	1,073	1,381	1,214
TSS (lbs/d)	1,987	2,506	2,772	2,406	2,312	1,991	1,929	2,530	2,440	1,947	2,015	2,231	2,256
TP (lbs/d)	58	62	87	73	68	59	69	53	65	64	67	70	

Baxter Most Recent Twelve Months Data

	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Average
Flow (MGD)	0.601	0.616	0.644	0.684	0.719	0.677	0.664	0.659	0.612	0.620	0.612	0.622	0.644
CBOD (lbs/d)	908	931	877	911	991	1,006	1,015	1,279	1,074	1,120	952	1,140	1,017
TSS (lbs/d)	1,388	1,475	1,622	1,641	1,607	1,623	1,540	1,871	1,594	1,515	1,407	1,740	1,585
TP (lbs/d)	38	41	48	49	47	45	42	42	40	42	39	42	

Base Charge Calculations

for
February 2025

Base Capital Charge Calculations

(Based on the estimated Phase I capital costs, actual costs will be dependent upon interest rates, construction bids, etc.)

Capital Cost: \$0 PFA Interest Rate: 3.233%
Repayment Period (years) 20

	Weight	Brainerd Allocation		Baxter Allocation		Subtotals
	(%)	(%)	(\$)	(%)	(\$)	(\$)
Flow	30%	66.67%	\$0	33.33%	\$0	\$0
CBOD	30%	66.67%	\$0	33.33%	\$0	\$0
TSS	30%	66.67%	\$0	33.33%	\$0	\$0
TP	10%	66.67%	\$0	33.33%	\$0	\$0
		Totals	\$0		\$0	\$0

	Brainerd	Baxter
Monthly Charges	\$0.00	\$0.00

Base Operating Charge Calculations

Brainerd

Current Month Flow and Loading Data

Average Daily Flow (MGD)	1.143
CBOD (mg/L)	142.7
TSS (mg/L)	233.8
TP (mg/L)	7.4

Current Month Operating Charge

	Base Unit Cost		Mass	Monthly Cost
	(\$)	Units	(lbs/day)	(\$)
Flow	\$1.025	1000 gal	NA	\$36,315
CBOD	\$0.732	lb CBOD	1,361	\$30,882
TSS	\$0.460	lb TSS	2,231	\$31,818
TP	\$5.369	lb TP	70	\$11,690
		Subtotal		\$110,704.87

Baxter

Current Month Flow and Loading Data

Average Daily Flow (MGD)	0.622
CBOD (mg/L)	219.5
TSS (mg/L)	335.0
TP (mg/L)	8.2

Current Month Operating Charge

	Base Unit Cost		Mass	Monthly Cost
	(\$)	Units	(lbs/day)	(\$)
Flow	\$1.025	1000 gal	NA	\$19,769
CBOD	\$0.732	lb CBOD	1,140	\$25,865
TSS	\$0.460	lb TSS	1,740	\$24,815
TP	\$5.369	lb TP	42	\$7,055
		Subtotal		\$77,503.62

WWTP Influent and Effluent Flows						
Date		BRD/BAX's Influent	BRD/BAX's Infl. Total	Baxter's Influent	Baxter's Daily Total	Brainerd's Daily Total
31-Jan	Fri	10,644,242,000	1.850	3,179,476,000	0.690	1.160
30-Jan	Thu	10,642,391,000	1.851	3,178,806,000	0.670	1.181
29-Jan	Wed	10,640,520,000	1.871	3,178,145,000	0.661	1.210
28-Jan	Tue	10,638,643,000	1.877	3,177,467,000	0.678	1.199
27-Jan	Mon	10,636,781,000	1.862	3,176,782,000	0.685	1.177
26-Jan	Sun	10,634,938,000	1.843	3,176,108,000	0.674	1.169
25-Jan	Sat	10,633,218,000	1.720	3,175,484,000	0.624	1.096
24-Jan	Fri	10,631,462,000	1.756	3,174,864,000	0.620	1.136
23-Jan	Thu	10,629,717,000	1.745	3,174,262,000	0.602	1.143
22-Jan	Wed	10,627,862,000	1.855	3,173,612,000	0.650	1.205
21-Jan	Tue	10,626,119,000	1.743	3,173,060,000	0.552	1.191
20-Jan	Mon	10,624,349,000	1.770	3,172,475,000	0.585	1.185
19-Jan	Sun	10,622,617,000	1.732	3,171,894,000	0.581	1.151
18-Jan	Sat	10,620,934,000	1.683	3,171,313,000	0.581	1.102
17-Jan	Fri	10,619,022,000	1.912	3,170,602,000	0.711	1.201
16-Jan	Thu	10,617,096,000	1.926	3,169,894,000	0.708	1.218
15-Jan	Wed	10,615,270,000	1.826	3,169,255,000	0.639	1.187
14-Jan	Tue	10,613,516,000	1.754	3,168,661,000	0.594	1.160
13-Jan	Mon	10,611,774,000	1.742	3,168,069,000	0.592	1.150
12-Jan	Sun	10,610,083,000	1.691	3,167,482,000	0.587	1.104
11-Jan	Sat	10,608,416,000	1.667	3,166,901,000	0.581	1.086
10-Jan	Fri	10,606,735,000	1.681	3,166,311,000	0.590	1.091
9-Jan	Thu	10,605,040,000	1.695	3,165,739,000	0.572	1.123
8-Jan	Wed	10,603,287,000	1.753	3,165,144,000	0.595	1.158
7-Jan	Tue	10,601,543,000	1.744	3,164,536,000	0.608	1.136
6-Jan	Mon	10,599,778,000	1.765	3,163,936,000	0.600	1.165
5-Jan	Sun	10,598,063,000	1.715	3,163,346,000	0.590	1.125
4-Jan	Sat	10,596,413,000	1.650	3,162,764,000	0.582	1.068
3-Jan	Fri	10,594,695,000	1.718	3,162,142,000	0.622	1.096
2-Jan	Thu	10,592,922,000	1.773	3,161,496,000	0.646	1.127
1-Jan	Wed	10,591,238,000	1.684	3,160,850,000	0.646	1.038
31-Dec	Tue	10,589,407,000	1.831	3,160,174,000	0.676	1.255
	Min		1.650		0.552	1.038
	Max		1.926		0.711	1.218
	Ave		1.769		0.623	1.146

WWTP Influent and Effluent Flows						
Date		BRD/BAX's Influent	BRD/BAX's Infl. Total	Baxter's Influent	Baxter's Daily Total	Brainerd's Daily Total
28-Feb	Fri					
27-Feb	Thu					
26-Feb	Wed					
25-Feb	Tue	10,688,156,000	1.894	3,194,881,000	0.699	1.195
24-Feb	Mon	10,686,193,000	1.963	3,194,156,000	0.725	1.238
23-Feb	Sun	10,684,362,000	1.831	3,193,472,000	0.684	1.147
22-Feb	Sat	10,682,590,000	1.772	3,192,785,000	0.687	1.085
21-Feb	Fri	10,680,730,000	1.860	3,192,083,000	0.702	1.158
20-Feb	Thu	10,678,823,000	1.907	3,191,380,000	0.703	1.204
19-Feb	Wed	10,677,052,000	1.771	3,190,786,000	0.594	1.177
18-Feb	Tue	10,675,325,000	1.727	3,190,204,000	0.582	1.145
17-Feb	Mon	10,673,606,000	1.719	3,189,616,000	0.588	1.131
16-Feb	Sun	10,671,872,000	1.734	3,189,000,000	0.616	1.118
15-Feb	Sat	10,670,176,000	1.696	3,188,367,000	0.633	1.063
14-Feb	Fri	10,668,504,000	1.672	3,187,782,000	0.585	1.087
13-Feb	Thu	10,666,779,000	1.725	3,187,191,000	0.591	1.134
12-Feb	Wed	10,665,023,000	1.756	3,186,614,000	0.577	1.179
11-Feb	Tue	10,663,325,000	1.698	3,186,053,000	0.561	1.137
10-Feb	Mon	10,661,570,000	1.755	3,185,457,000	0.596	1.159
9-Feb	Sun	10,659,777,000	1.793	3,184,841,000	0.616	1.177
8-Feb	Sat	10,658,084,000	1.693	3,184,250,000	0.591	1.102
7-Feb	Fri	10,656,350,000	1.734	3,183,636,000	0.614	1.120
6-Feb	Thu	10,654,668,000	1.682	3,183,082,000	0.554	1.128
5-Feb	Wed	10,652,891,000	1.777	3,182,491,000	0.591	1.186
4-Feb	Tue	10,651,154,000	1.737	3,181,922,000	0.569	1.168
3-Feb	Mon	10,649,445,000	1.709	3,181,342,000	0.580	1.129
2-Feb	Sun	10,647,711,000	1.734	3,180,734,000	0.608	1.126
1-Feb	Sat	10,646,092,000	1.619	3,180,166,000	0.568	1.051
31-Jan	Fri	10,644,242,000	1.850	3,179,476,000	0.690	1.160
	Min		1.619		0.554	1.051
	Max		1.963		0.725	1.238
	Ave		1.758		0.617	1.142

2024 BRAINERD FLOW CHART**ACCOUNT# 16-47900**

DATE	READING	GALLONS
12/24/2024	577,444,000	51,823,000
01/24/2025	631,462,000	54,018,000
02/24/2025	686,193,000	54,731,000
03/24/2025		
04/24/2025		
05/24/2025		
06/24/2025		
07/24/2025		
08/24/2025		
09/24/2025		
10/24/2025		
11/24/2025		
12/24/2025		

2024 BAXTER FLOW CHART

DATE	READING	GALLONS
12/24/2024	155,883,000	18,587,000
01/24/2025	174,864,000	18,981,000
02/24/2025	194,156,000	19,292,000
03/24/2025		
04/24/2025		
05/24/2025		
06/24/2025		
07/24/2025		
08/24/2025		
09/24/2025		
10/24/2025		
11/24/2025		
12/24/2025		

BRAINERD-BAXTER INFLUENT FLOW CHART.XLS

Instructions: Where to find the readings and how to apply the total into Incode.

W FILE:

WWTP

LAB

INEFFL Give this to Danny and he will give you a printout with a total.

INCODE:

BILLING

SERVICES

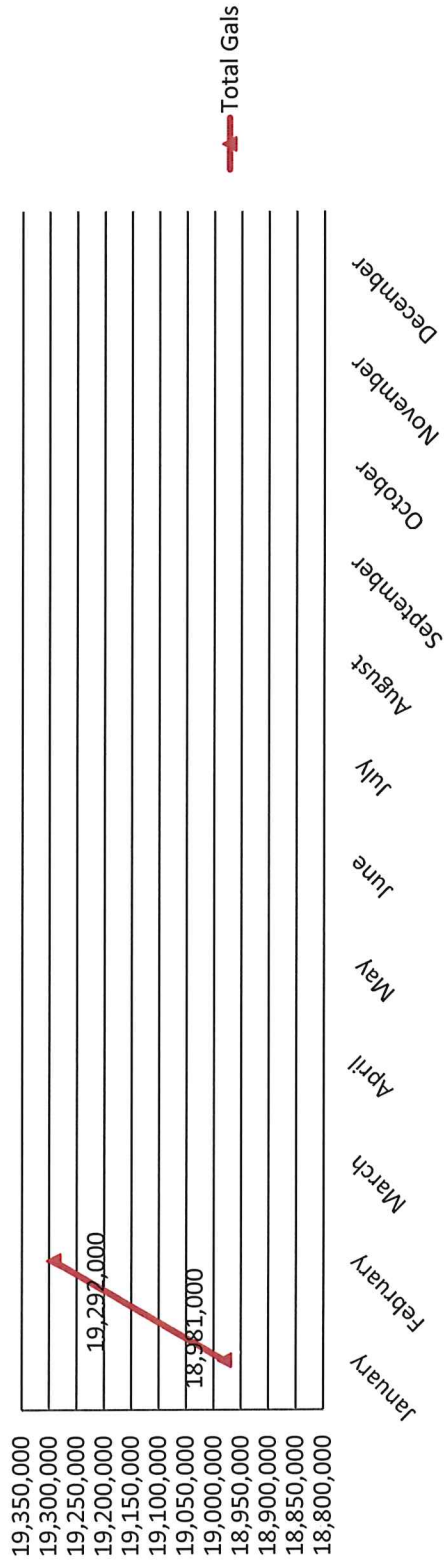
EDIT

Put the total that Danny gave you in Incode.

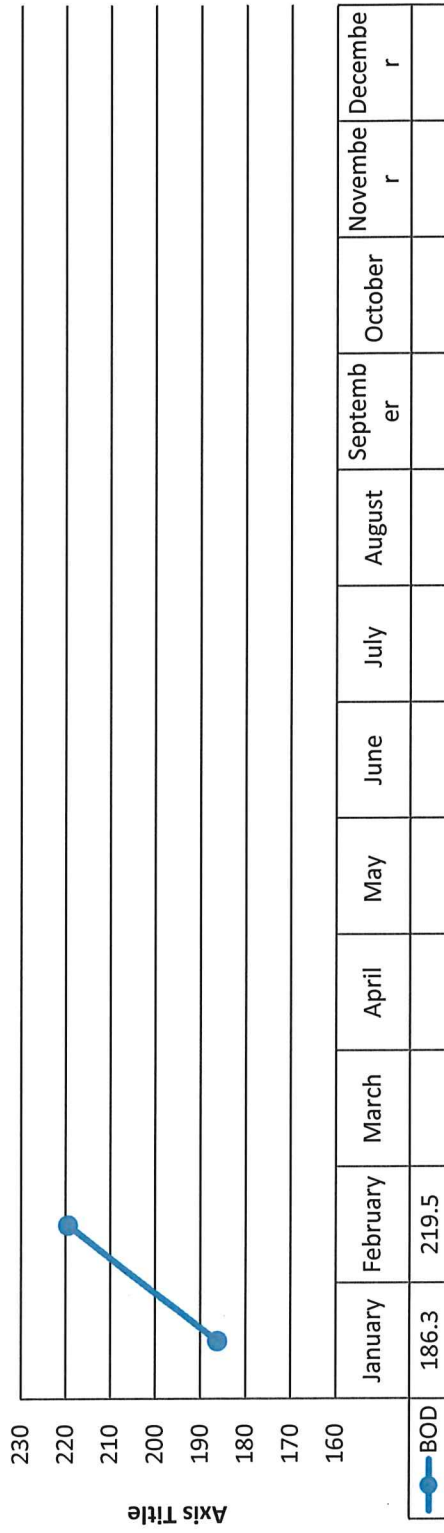
Copy the pages Danny gave you and file your copy in your office and give the ladies up front.

the original that Danny gave you, this is to be sent with Baxters Billing.

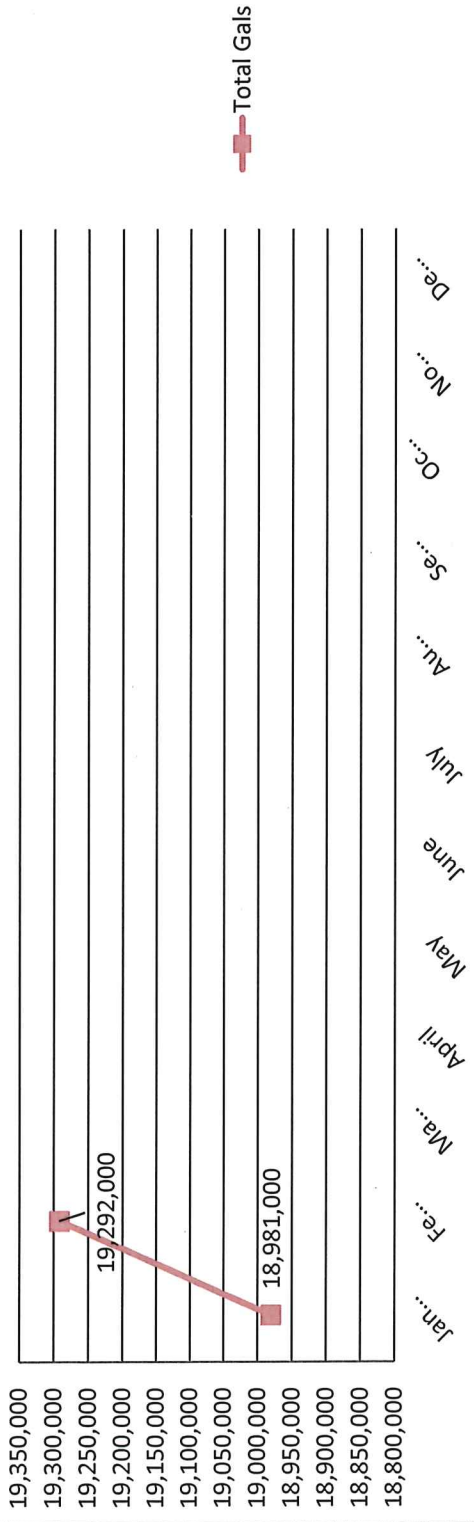
Total Gals



BOD



Total Gals



TSS

