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Western Lake Superior Sanitary District

February 3, 2023

Mr. Jim Benning
Director of Public Works
207 City Hall
Duluth, MN 55802

Subject: 2023 Wastewater Treatment Year-End Adjustments

Dear Mr. Benning:

At the close of each year, we notify our wastewater treatment users of the year-end adjustment based on the actual flow and load data, and treatment costs.

For 2022, the WLSSD Board has approved total wastewater charges of \$28,649,023 as shown in the attached comparison of billed (budget) to required charges (actual) for 2022. Each wastewater user will receive additional charges or credits based upon their actual flows and loads as compared to budget. This amount will be spread evenly over the 12-month period in 2023.

Attached is a table summarizing the 2022 billing as compared to the 2022 required actual. For Duluth, the total year-end adjustment for 2022 is a charge of \$491,705. This will be included as a \$40,975/month charge on your 2022 monthly billing. The primary contributors to the Duluth year end adjustment were higher loadings and peak flow as compared to budget and higher costs for flow.

Please contact me at 740-4805 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Bohren', is written over a horizontal line.

Marianne Bohren
Executive Director

xc: Eric Schaffer
Kerry Venier

Attachment

2022 Year End Adjustment

	BILLED 2022	REQUIRED 2022	YEAR-END ADJUSTMENT
DULUTH	9,368,535	9,860,240	\$491,705
CLOQUET	1,053,638	881,815	(\$171,823)
PROCTOR	341,820	314,835	(\$26,985)
HERMANTOWN	578,737	534,782	(\$43,955)
ESKO	162,337	154,856	(\$7,481)
SCANLON	136,329	120,311	(\$16,018)
CARLTON	117,347	118,670	\$1,323
RICE LAKE	54,023	47,729	(\$6,294)
TWIN LAKE	96,707	57,737	(\$38,970)
PIKE LAKE	82,205	76,009	(\$6,196)
KNIFE RIVER	\$19,976	19,189	(\$787)
OLIVER	18,215	15,297	(\$2,918)
THOMSON	9,874	8,454	(\$1,420)
WRENSHALL	24,209	25,279	\$1,070
JAY COOKE	2,515	3,198	\$683
MIDWAY	4,902	5,740	\$838
MPCA LANDFILL	9,049	9,568	\$519
UNUSED	-	-	\$0
DULUTH/NORTH SHORE	48,068	47,650	(\$418)
MUNICIPALITIES SUBTOTAL	12,128,486	12,301,357	\$172,871
SAPPI	14,012,530	13,969,161	(\$43,369)
GEORGIA PACIFIC	19,881	19,881	\$0
USG	1,026,891	957,431	(\$69,460)
ST PAPER 1	1,264,991	1,215,779	(\$49,212)
SPECIALTY MINERALS	196,244	185,412	(\$10,832)
INDUSTRIES SUBTOTAL	16,520,537	\$16,347,666	(\$172,871)
TOTAL DISTRICT	\$28,649,023	\$28,649,023	(\$0)

**2022 Year End Adjustment
Wastewater Unit Costs**

	BUDGET 2022	REQUIRED 2022	% CHANGE
<u>VOLUME</u>			
FLOW (MGD)	33.53	33.72	0.57%
BOD (LBS/DAY)	61,964	70,791	14.25%
SUSPENDED SOLIDS (LBS/DAY)	39,774	52,217	31.28%
<u>O & M UNIT COSTS</u>			
FLOW (COST/1000 GAL)	\$0.6415	\$0.7296	13.73%
PEAK FLOW	\$0.0315	\$0.0226	-28.38%
BOD (COST/LB)	\$0.2055	\$0.1991	-3.11%
SUSPENDED SOLIDS (COST/LB)	\$0.3189	\$0.2673	-16.16%
<u>O & M + DEBT SERVICE UNIT COSTS</u>			
FLOW (COST/1000 GAL)	\$0.8614	\$0.9495	10.22%
PEAK FLOW	\$0.0851	\$0.0725	-14.84%
BOD (COST/LB)	\$0.2580	\$0.2515	-2.50%
SUSPENDED SOLIDS (COST/LB)	\$0.3781	\$0.3262	-13.73%
DOMESTIC EQUIV (COST/1000GAL)	\$2.0075	\$1.9857	-1.09%

Western Lake Superior Sanitary District
Billing Detail
2022 Year End Adjustment

Line No.	Class of Service	Budget Operating Expenses, based on Budgeted Flows and Loads					Debt Svc - based on Permitted Flows and Loads					TOTAL			
		Basis	Flow				TOTAL	FLOW	PEAK FLOW	TOTAL FLOW	BOD		TSS	TOTAL	
			Flow	Billable Peak Flow	BOD	TSS									
Municipalities: Duluth-															
1	Duluth	Budget	\$3,286,316	\$629,706	\$999,526	\$1,756,685	\$6,672,233	\$1,376,066	\$992,215	\$2,368,281	\$323,794	\$495,932	\$3,188,007	\$9,860,240	
2	Cloquet	Budget	\$251,349	\$22,001	\$102,417	\$201,985	\$577,752	\$112,433	\$85,979	\$198,412	\$37,083	\$68,567	\$304,062	\$881,815	
3	Proctor	Budget	\$102,867	\$15,615	\$34,090	\$55,034	\$207,607	\$48,415	\$32,384	\$80,798	\$11,328	\$15,101	\$107,228	\$314,835	
4	Hermantown	Budget	\$175,511	\$8,603	\$77,558	\$102,456	\$364,127	\$58,777	\$47,116	\$105,893	\$29,521	\$35,241	\$170,655	\$534,782	
5	Esko	Budget	\$46,973	\$9,685	\$19,117	\$29,761	\$105,537	\$18,516	\$14,801	\$33,317	\$6,616	\$9,386	\$49,320	\$154,856	
6	Scanlon	DE	\$41,115	\$3,416	\$18,753	\$25,175	\$88,459	\$11,466	\$10,845	\$22,310	\$4,563	\$4,979	\$31,852	\$120,311	
7	Carlton	Budget	\$40,183	\$7,323	\$11,630	\$17,857	\$76,993	\$21,167	\$13,259	\$34,425	\$3,093	\$4,168	\$41,677	\$118,670	
8	Rice Lake	DE	\$14,193	\$1,518	\$6,469	\$8,684	\$30,864	\$6,842	\$4,817	\$11,660	\$2,467	\$2,738	\$16,864	\$47,729	
9	Twin Lake	Budget	\$9,320	\$1,420	\$10,612	\$12,783	\$34,136	\$7,217	\$5,951	\$13,169	\$5,009	\$5,423	\$23,601	\$57,737	
10	Pike Lake	DE	\$25,004	\$2,068	\$11,412	\$15,320	\$53,804	\$8,685	\$6,722	\$15,407	\$3,232	\$3,565	\$22,204	\$76,009	
11	Knife River	DE	\$5,672	\$1,027	\$2,617	\$3,513	\$12,828	\$2,081	\$2,477	\$4,558	\$851	\$952	\$6,361	\$19,189	
12	Oliver	DE	\$4,660	\$693	\$2,108	\$2,830	\$10,291	\$1,914	\$1,491	\$3,405	\$761	\$841	\$5,007	\$15,297	
13	Thomson	DE	\$1,971	\$675	\$872	\$1,171	\$4,689	\$1,412	\$1,076	\$2,488	\$613	\$664	\$3,765	\$8,454	
14	Wrenshall	DE	\$7,962	\$1,118	\$3,634	\$4,879	\$17,593	\$3,115	\$1,994	\$5,108	\$1,225	\$1,352	\$7,686	\$25,279	
15	Jay Cooke	DE	\$586	\$480	\$291	\$390	\$1,747	\$518	\$436	\$954	\$229	\$268	\$1,451	\$3,198	
16	Midway	DE	\$1,198	\$24	\$727	\$781	\$2,730	\$1,385	\$762	\$2,147	\$384	\$480	\$3,010	\$5,740	
17	MPCA Landfill	DE	\$985	\$112	\$436	\$585	\$2,119	\$3,317	\$1,524	\$4,841	\$1,220	\$1,389	\$7,449	\$9,568	
18	Unused	DE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
19	North Shore	DE	\$13,421	\$2,740	\$6,106	\$8,196	\$30,464	\$6,177	\$5,865	\$12,042	\$2,424	\$2,721	\$17,186	\$47,650	
21	Totals-Municipalities		\$4,029,286	\$708,225	\$1,308,376	\$2,248,084	\$8,293,972	\$1,689,502	\$1,229,713	\$2,919,215	\$434,413	\$653,758	\$4,007,386	\$12,301,357	
Industrials-															
22	Georgia Pacific		\$0	\$0	\$0	\$0	\$0	\$4,748	\$1,852	\$6,600	\$10,679	\$2,603	\$19,881	\$19,881	
23	Sappi		\$4,618,848	\$73,087	\$3,645,426	\$2,288,871	\$10,626,232	\$1,314,177	\$443,920	\$1,758,097	\$1,075,091	\$509,741	\$3,342,929	\$13,969,161	
24	ST Paper 1		\$140,946	\$39,402	\$27,331	\$37,958	\$245,636	\$335,236	\$145,790	\$481,026	\$434,539	\$54,579	\$970,143	\$1,215,779	
25	USG		\$138,789	\$6,392	\$164,128	\$448,270	\$757,580	\$48,766	\$22,155	\$70,921	\$44,341	\$84,589	\$199,851	\$957,431	
27	Specialty Minerals		\$52,672	\$555	\$363	\$72,012	\$125,603	\$21,775	\$9,112	\$30,887	\$166	\$28,757	\$59,810	\$185,412	
28	Totals-Industrials		\$4,951,256	\$119,436	\$3,837,248	\$2,847,111	\$11,755,051	\$1,724,703	\$622,829	\$2,347,532	\$1,564,815	\$680,267	\$4,592,614	\$16,347,666	
30	Totals-All Users		\$8,980,542	\$827,661	\$5,145,624	\$5,095,195	\$20,049,023	\$3,414,205	\$1,852,542	\$5,266,747	\$1,999,228	\$1,334,025	\$8,600,000	\$28,649,023	