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Western Lake Superior Sanitary District
January 29, 2025

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

Subject: 2024 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 2024, the WLSSD Board has approved total wastewater charges of \$29,523,979 as shown in the attached comparison of billed (budget) to required charges (actual) for 2024. 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 2025.

Attached is a table summarizing the 2024 billing as compared to the 2024 required actual. For Duluth, the total year-end adjustment for 2024 is a charge of \$184,239. The primary contributor to Duluth's year-end adjustment was peak flow (billed for 47.8 MGD peak vs. actual peak of 105.0 MGD). The year end adjustment will be included as a \$15,353/month charge on your 2025 monthly billing.

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

Sincerely,

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

Marianne Bohren
Executive Director

xc: Kerry Venier

Attachment

2024 Year End Adjustment

	BILLED 2024	REQUIRED 2024	YEAR-END ADJUSTMENT
DULUTH	9,997,232	10,181,471	\$184,239
CLOQUET	1,031,173	865,140	(\$166,033)
PROCTOR	352,912	331,930	(\$20,982)
HERMANTOWN	622,078	581,707	(\$40,371)
ESKO	174,696	169,339	(\$5,357)
SCANLON	147,966	160,128	\$12,162
CARLTON	125,852	138,310	\$12,458
RICE LAKE	57,635	51,394	(\$6,241)
TWIN LAKE	68,920	61,480	(\$7,440)
PIKE LAKE	87,570	75,261	(\$12,309)
KNIFE RIVER	\$21,331	19,642	(\$1,689)
OLIVER	19,495	16,305	(\$3,190)
THOMSON	9,170	10,158	\$988
WRENSHALL	27,730	30,851	\$3,121
JAY COOKE	2,462	3,158	\$696
MIDWAY	4,676	5,717	\$1,041
MPCA LANDFILL	9,209	8,158	(\$1,051)
UNUSED	-	-	\$0
DULUTH/NORTH SHORE	50,862	59,276	\$8,414
MUNICIPALITIES SUBTOTAL	12,810,969	12,769,427	(\$41,542)
SAPPI	14,324,172	14,416,761	\$92,589
GEORGIA PACIFIC	13,440	13,440	\$0
USG	741,194	726,242	(\$14,952)
SOFIDEL	1,449,842	1,429,769	(\$20,073)
SPECIALTY MINERALS	184,362	168,340	(\$16,022)
INDUSTRIES SUBTOTAL	16,713,010	\$16,754,552	\$41,542
TOTAL DISTRICT	\$29,523,979	\$29,523,979	(\$0)

**2024 Year End Adjustment
Wastewater Unit Costs**

	BUDGET 2024	REQUIRED 2024	%
			CHANGE
<u>VOLUME</u>			
FLOW (MGD)	35.62	34.38	-3.46%
BOD (LBS/DAY)	71,539	57,713	-19.33%
SUSPENDED SOLIDS (LBS/DAY)	41,646	52,191	25.32%
<u>O & M UNIT COSTS</u>			
FLOW (COST/1000 GAL)	\$0.6984	\$0.7215	3.31%
PEAK FLOW	\$0.0374	\$0.0190	-49.24%
BOD (COST/LB)	\$0.2035	\$0.2546	25.16%
SUSPENDED SOLIDS (COST/LB)	\$0.3436	\$0.2762	-19.62%
<u>O & M + DEBT SERVICE UNIT COSTS</u>			
FLOW (COST/1000 GAL)	\$0.9271	\$0.9502	2.49%
PEAK FLOW	\$0.0935	\$0.0675	-27.82%
BOD (COST/LB)	\$0.2587	\$0.3099	19.78%
SUSPENDED SOLIDS (COST/LB)	\$0.4033	\$0.3356	-16.79%
DOMESTIC EQUIV (COST/1000GAL)	\$2.1248	\$2.0943	-1.44%

Western Lake Superior Sanitary District
 Billing Detail
 2024 Year End Adjustment

Line No.	Class of Service	Operating Expenses - based on Budgeted Flows and Loads				Debt Svc - based on Permitted Flows and Loads				TOTAL				
		Budget Basis	Flow	Billable Peak Flow	BOD	TSS	TOTAL	FLOW	PEAK FLOW		TOTAL FLOW			
Municipalities: Duluth-														
1	Duluth	Budget	\$3,160,226	\$645,460	\$1,153,780	\$1,852,487	\$6,811,953	\$1,439,776	\$1,091,214	\$2,530,990	\$334,766	\$503,762	\$3,369,518	\$10,181,471
2	Clouquet	Budget	\$228,639	\$10,843	\$120,453	\$191,932	\$551,867	\$117,030	\$85,681	\$202,710	\$39,627	\$70,936	\$313,273	\$865,140
3	Proctor	Budget	\$104,207	\$15,765	\$39,129	\$60,886	\$219,986	\$50,395	\$34,184	\$84,579	\$11,940	\$15,425	\$111,944	\$331,930
4	Herrnstown	Budget	\$174,731	\$18,052	\$97,124	\$112,498	\$402,406	\$62,437	\$48,690	\$111,127	\$31,817	\$36,357	\$179,301	\$581,707
5	Esro	Budget	\$47,613	\$11,965	\$24,444	\$30,745	\$114,768	\$19,567	\$17,881	\$37,448	\$7,207	\$9,916	\$54,571	\$169,339
6	Scanlon	DE	\$45,559	\$17,113	\$26,860	\$29,133	\$118,665	\$12,551	\$18,490	\$31,041	\$5,079	\$5,343	\$41,463	\$160,128
7	Carlton	Budget	\$44,032	\$13,087	\$8,179	\$18,447	\$90,437	\$22,163	\$17,822	\$39,985	\$3,478	\$4,410	\$47,873	\$138,310
8	Rice Lake	DE	\$13,957	\$2,744	\$8,179	\$8,871	\$33,751	\$6,988	\$5,229	\$12,217	\$2,620	\$2,807	\$24,624	\$61,394
9	Twin Lake	Budget	\$8,954	\$1,903	\$13,198	\$12,802	\$36,856	\$7,452	\$5,968	\$13,420	\$5,521	\$5,683	\$24,624	\$61,480
10	Pike Lake	DE	\$23,122	\$1,554	\$13,384	\$14,516	\$52,575	\$8,848	\$6,639	\$15,487	\$3,490	\$3,709	\$22,686	\$75,261
11	Knife River	DE	\$5,188	\$1,311	\$3,067	\$3,327	\$12,892	\$2,192	\$2,691	\$4,882	\$901	\$966	\$6,749	\$19,642
12	Oliver	DE	\$4,740	\$588	\$2,788	\$3,024	\$11,141	\$1,986	\$1,502	\$3,489	\$811	\$865	\$5,164	\$16,305
13	Thomson	DE	\$2,396	\$876	\$1,394	\$1,512	\$6,179	\$1,425	\$1,299	\$2,724	\$619	\$636	\$3,979	\$10,158
14	Wrenshall	DE	\$9,481	\$1,359	\$5,577	\$6,048	\$22,464	\$3,320	\$2,339	\$5,658	\$1,323	\$1,407	\$3,388	\$30,651
15	Jay Cooke	DE	\$579	\$384	\$372	\$403	\$1,739	\$506	\$467	\$973	\$211	\$235	\$1,419	\$3,158
16	Midway	DE	\$1,211	\$19	\$1,022	\$806	\$3,060	\$1,218	\$650	\$1,868	\$368	\$422	\$2,657	\$5,717
17	MPCA Landfill	DE	\$563	\$195	\$279	\$302	\$1,329	\$3,047	\$1,396	\$4,443	\$1,123	\$1,263	\$6,829	\$8,158
18	Unused	DE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
19	North Shore	DE	\$15,617	\$5,211	\$9,201	\$9,980	\$40,009	\$6,391	\$7,632	\$14,023	\$2,528	\$2,717	\$19,267	\$59,276
21	Totals-Municipalities		\$3,890,805	\$748,431	\$1,535,121	\$2,357,720	\$8,532,076	\$1,767,293	\$1,349,771	\$3,117,064	\$453,429	\$666,858	\$4,237,350	\$12,769,427
Industrials-														
22	Georgia Pacific		\$0	\$0	\$0	\$0	\$0	\$3,294	\$1,324	\$4,618	\$7,248	\$1,575	\$13,440	\$13,440
23	Sappi		\$4,627,099	\$45,435	\$3,620,271	\$2,630,397	\$10,923,202	\$1,398,400	\$425,049	\$1,823,449	\$1,133,854	\$536,256	\$3,493,559	\$14,416,761
24	Softel		\$365,628	\$43,828	\$30,671	\$31,325	\$471,451	\$331,210	\$141,514	\$472,724	\$435,511	\$50,083	\$956,318	\$1,429,769
25	USG		\$118,612	\$5,577	\$177,333	\$187,396	\$488,918	\$54,314	\$21,459	\$76,773	\$51,552	\$110,000	\$237,325	\$728,242
27	Specialty Minerals		\$52,143	\$1,398	\$558	\$54,233	\$108,332	\$21,812	\$8,845	\$30,656	\$167	\$29,185	\$60,008	\$168,340
28	Totals-Industrials		\$5,163,481	\$96,238	\$3,828,833	\$2,903,350	\$11,991,903	\$1,809,030	\$598,190	\$2,407,220	\$1,628,331	\$727,098	\$4,762,650	\$16,754,552
30	Totals-All Users		\$9,054,287	\$844,669	\$5,363,954	\$5,261,070	\$20,523,979	\$3,576,323	\$1,947,961	\$5,524,284	\$2,081,760	\$1,393,956	\$9,000,000	\$29,523,979

2024 FLOW (MGD)

	BUDGET 2024	AVG THROUGH 12/31/2024	VARIANCE
DULUTH	12.700	12.000	(0.700)
CLOQUET	1.000	0.868	(0.132)
HERMANTOWN	0.650	0.664	0.014
PROCTOR	0.400	0.396	(0.004)
ESKO (Includes Helb/Lars)	0.2062	0.181	(0.025)
SCANLON	0.169	0.173	0.004
CARLTON	0.150	0.167	0.017
THOMSON (City only)	0.008	0.009	0.001
TWIN LAKES	0.040	0.034	(0.006)
RICE LAKE	0.060	0.053	(0.007)
OLIVER	0.022	0.018	(0.004)
PIKE LAKE	0.100	0.088	(0.012)
KNIFE RIVER	0.022	0.020	(0.002)
MPCA LANDFILL	0.003	0.002	(0.001)
WRENSHALL	0.030	0.036	0.006
JAY COOKE	0.002	0.0022	0.000
BUFFALO/MIDWAY	0.0030	0.005	0.0016
DULUTH/NORTH SHO	0.050	0.059	0.009
MUNICIPAL SUBTOT	15.615	14.774	(0.841)
SAPPI	17.000	17.570	0.570
USG	0.550	0.450	(0.100)
SOFIDEL AMERICA	2.250	1.515	(0.735)
SPECIALTY MINERALS	0.200	0.198	(0.002)
INDUSTRIAL SUBTOT	20.000	19.733	(0.267)
TOTAL FLOW	35.615	34.508	(1.108)

2024 SUSPENDED SOLIDS (LBS/DAY)

	BUDGET 2024	AVG THROUGH 12/31/2024	VARIANCE
DULUTH	16,100	18,377	2,277
CLOQUET	2,193	1,904	(289)
HERMANTOWN	1,100	1,116	16
PROCTOR	600	604	4
ESKO	305	305	0
(Includes Helb/Lars)			
SCANLON	282	289	7
CARLTON	183	183	0
THOMSON (City only)	13	15	2
TWIN LAKES	133	127	(6)
RICE LAKE	100	88	(12)
OLIVER	37	30	(7)
PIKE LAKE	167	144	(23)
KNIFE RIVER	37	33	(4)
MPCA LANDFILL	5	3	(2)
WRENSHALL	50	60	10
JAY COOKE	3	4	1
BUFFALO/MIDWAY	5	8	3
DULUTH/NORTH SHOI	83	99	16
MUNICIPAL SUBTOTA	<u>21,397</u>	<u>23,389</u>	<u>1,992</u>
SAPPI	15,750	26,094	10,344
USG	3,000	1,859	(1,141)
SOFIDEL AMERICA	1,000	339	(661)
SPECIALTY MINERAL	500	538	38
INDUSTRIAL SUBTOT	<u>20,250</u>	<u>28,830</u>	<u>8,580</u>
TOTAL DISTRICT	<u>41,647</u>	<u>52,219</u>	<u>10,572</u>

2024 BOD (LBS/DAY)

	BUDGET 2024	AVG THROUGH 12/31/2024	VARIANCE
DULUTH	13,500	12,414	(1,086)
CLOQUET	1,493	1,296	(197)
HERMANTOWN	1,150	1,045	(105)
PROCTOR	530	421	(109)
ESKO (Includes Helb/Lars)	263	263	0
SCANLON	282	289	7
CARLTON	160	160	0
THOMSON (City only)	13	15	2
TWIN LAKES	153	142	(11)
RICE LAKE	100	88	(12)
OLIVER	37	30	(7)
PIKE LAKE	167	144	(23)
KNIFE RIVER	37	33	(4)
MPCA LANDFILL	5	3	(2)
WRENSHALL	50	60	10
JAY COOKE	3	4	1
BUFFALO/MIDWAY	8	11	3
DULUTH/NORTH SHOI	83	99	16
MUNICIPAL SUBTOTA	18,034	16,517	(1,517)
SAPPI	43,500	38,952	(4,548)
USG	2,000	1,908	(92)
SOFIDEL AMERICA	8,000	360	(7,640)
SPECIALTY MINERALS	5	6	1
INDUSTRIAL SUBTOT	53,505	41,226	(12,279)
TOTAL BOD	71,539	57,743	(13,796)