

2626 Courtland Street Duluth, MN 55806-1894 phone 218.722.3336 fax 218.727.7471 www.wlssd.com

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,

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	-	· 1	\$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

VOLUME	BUDGET 2024	REQUIRED 2024	% CHANGE
VOLUME			
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%
			e at
O & M UNIT COSTS			
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%
CAMA DEDITION AND AND AND AND AND AND AND AND AND AN			
O & M + DEBT SERVICE UNIT COSTS	•		
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

Municipalities: Duluth- Duluth S228.6329 \$10,943 \$123,770 \$1,952.437 \$81,953 \$1,439.76 \$1,091.214 \$2,530.990 \$394,768 \$90,769 \$3,90,779 \$3,90,779	No.	Class of Service	Basis	Flow Billable Peak Flow BOD TSS	Billable Peak Flow	BOD	SST	TOTAL .	FLOW	PEAK FI OW	K FLOW TOTAL FLOW BOD TSS	BOD	SST	TOTAL	(
Dalumin Budget \$3,160,226 \$845,460 \$1,153,780 \$1,052,477 \$1,091,214 \$2,030,900 \$334,765 \$10,277 \$11,944 \$10,277 \$11,477 \$10,277 \$11,477		Municipalities: Duluth-													
Column C			Dindrot	83 460 336	964R 460	64 4E3 700	707 070	200	24 400 110) 		
Product Budget \$10,000 \$10,0	.	Cloguet	Rudget	#338 R30	\$40.0,100 \$40.0,100	#130 AES	\$404,7007	\$0,01,000	\$447.000	417,180,14	000,000	\$554,750	\$503,762	\$3,369,518	\$10,181,4/1
Hamintown Budget \$174,713 \$10,005 \$97,124 \$112,404 \$20,745 \$11,478 \$11	ယ	Proctor	Rudnet	\$104 207	\$15.765	\$30 19Q	300,000 100,000	#340 D88	# # 7 , OCC	. 20,00 . 20,00	\$0.4 E70	944,040	#10,000 000,000	\$313,213	\$865,140
Scanton Sudget \$4,14,03 \$10,002 \$34,144 \$30,745 \$41,2495 \$32,437 \$48,890 \$111,127 \$31,817 \$39,557 \$17,301 \$20,000 \$24,6180 \$11,1278 \$31,817 \$39,557 \$17,301 \$20,000 \$20,000 \$17,113 \$20,890 \$31,114 \$30,745 \$31,846 \$19,567 \$17,841 \$37,446 \$7,007 \$39,16 \$24,673 \$31,460 \$31,160 \$11,2495 \$31,240 \$	▶.	Lormantouro	0 1	9474 704	9 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 CC	9400,000	910000	\$00,000	\$04, IO4	8/C'+0¢	911,940	\$10,420	\$11,944	\$331,930
Section Sect		Tellialiowii	Budget	\$1/4,/31	\$18,U5Z	\$97,724	\$112,498	\$402,406	\$62,437	\$48,690	\$111,127	\$31,817	\$36,357	\$179,301	\$581,707
Scanton DE \$45,559 \$17,113 \$25,030 \$11,665 \$12,651 \$11,840 \$231,041 \$34,463 \$41,463 \$13,957 \$22,133 \$11,865 \$12,867 \$21,447 \$14,471 \$1		Esko	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
Cartton Budget \$44,022 \$13,087 \$14,877 \$80,437 \$22,163 \$17,822 \$39,985 \$3,478 \$44,07 \$77,000 \$17,842 \$13,967 \$12,807 \$12,807 \$10,847 \$10,847 \$17,842 \$17,842 \$17,842 \$1,963 \$12,807 \$1		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
Rice Lake DE \$13,957 \$2,744 \$8,179 \$33,751 \$6,988 \$5,229 \$12,217 \$2,250 \$2,807 \$77,643 \$1,948 \$1,949 \$1,948 \$1,949	7	Carlton	Budget	\$44,032	\$13,087	\$14,871	\$18,447	\$90,437	\$22,163	\$17,822	\$39.985	\$3,478	\$4,410	\$47.873	\$138 310
Twin Lake Budget \$8,964 \$1,903 \$13,348 \$12,802 \$36,865 \$7,452 \$5,665 \$13,420 \$5,521 \$5,663 \$24,624 Rice Lake Budget \$8,944 \$1,903 \$13,348 \$13,441 \$1,986 \$13,490 \$13,490 \$13,490 \$14,441 \$1,986 \$13,490 \$13,490 \$13,490 \$13,490 \$13,490 \$13,490 \$13,490 \$14,49		Rice Lake	DE	\$13,957	\$2,744	\$8,179	\$8,871	\$33,751	\$6,988	\$5.229	\$12.217	\$2,620	\$2 807	\$17.643	\$51 30 <i>0</i>
Pike Lake DE \$23,122 \$1,554 \$13,384 \$14,516 \$52,575 \$8,848 \$6,639 \$15,487 \$3,490 \$3,709 \$22,666 Knihe River DE \$4,740 \$5,88 \$1,311 \$3,007 \$3,327 \$11,282 \$2,192 \$2,691 \$4,882 \$901 \$3,666 \$6,749 Chiver DE \$4,740 \$588 \$2,788 \$3,007 \$1,282 \$2,192 \$2,296 \$4,882 \$911 \$866 \$5,749 Chiver DE \$4,740 \$588 \$1,394 \$1,512 \$1,344 \$1,329 \$2,724 \$819 \$8,668 \$3,979 Wrenshall DE \$579 \$324 \$577 \$403 \$1,218 \$3,320 \$2,339 \$5,658 \$1,239 \$4,425 \$1,239 \$2,774 \$2,389 \$4,427 \$2,389 \$4,427 \$3,379 \$4,227 \$2,265 \$4,431 \$1,288 \$1,223 \$1,248 \$4,227 \$2,265 \$1,48 \$1,289 \$3,047 \$1,	ဖ	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
Knife River DE \$5,188 \$1,311 \$3,067 \$3,327 \$12,892 \$2,192 \$2,691 \$4,882 \$901 \$966 \$6,749 Oliver DE \$4,740 \$568 \$2,788 \$3,024 \$11,141 \$1,986 \$1,502 \$3,489 \$81,799 Oliver DE \$2,389 \$8778 \$1,394 \$1,141 \$1,986 \$1,294 \$81,497 Wrenshall DE \$9,481 \$1,359 \$5,577 \$6,048 \$22,464 \$3,320 \$2,339 \$5,568 \$1,323 \$1,407 \$8,388 Jay Cooke DE \$1,211 \$139 \$1,022 \$403 \$1,719 \$4,625 \$1,499 \$2,239 \$5,568 \$1,323 \$1,407 \$8,388 Jay Cooke DE \$1,211 \$1,399 \$40,08 \$1,218 \$2650 \$44,83 \$1,223 \$2,149 Microry DE \$1,261 \$1,222 \$302 \$1,229 \$3,047 \$1,398 \$4,443 \$1,123 \$1,223	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	\$75.061
Oliver of Colliver DE S4,740 (\$588 \$2,788 \$2,788 \$3,024 \$1,141 \$1,986 \$1,502 \$3,489 \$811 \$866 \$3,679 \$1,000 \$	1	Knife River	DE	\$5,188	\$1,311	\$3,067	\$3,327	\$12,892	\$2,192	\$2.691	\$4.882	\$901	3966	\$6 749	\$19.642
Thomson DE \$2,386 \$876 \$1,394 \$1,512 \$6,179 \$1,425 \$1,299 \$2,724 \$619 \$336 \$3,979 Wrenshall DE \$5,9481 \$1,359 \$5,577 \$6,048 \$3,220 \$2,339 \$5,688 \$1,407 \$83,88 Jay Cooke DE \$5,211 \$19 \$1,022 \$806 \$3,060 \$1,218 \$860 \$467 \$973 \$211 \$235 \$1,419 Mildway DE \$1,211 \$19 \$1,022 \$806 \$3,060 \$1,218 \$860 \$467 \$973 \$211 \$235 \$1,419 Mildway DE \$1,211 \$19 \$1,022 \$806 \$3,060 \$1,218 \$860 \$4,433 \$1,123 \$1,263 \$8,829 Unused DE \$553 \$195 \$278 \$221 \$2,257,720 \$3,022 \$1,329 \$3,047 \$1,396 \$4,443 \$1,123 \$1,263 \$8,829 North Shore DE \$15,617 \$5,211 \$9,201 \$9,980 \$40,009		Oliver	DE	\$4,740	\$588	\$2,788	\$3,024	\$11,141	\$1,986	\$1,502	\$3.489	\$811	\$865	\$5.164	\$16,305
Wrenshall DE \$9,481 \$1,359 \$5,577 \$6,048 \$22,464 \$3,320 \$2,339 \$5,668 \$1,323 \$1,407 \$3,888 Jay Cooke DE \$579 \$384 \$372 \$403 \$1,739 \$566 \$1,868 \$21,419 \$238 \$1,419	3	Thomson	묘	\$2,396	\$876	\$1,394	\$1,512	\$6,179	\$1,425	\$1,299	\$2.724	\$619	\$636	\$3,979	\$10,458
Jay Cooke DE \$579 \$384 \$372 \$403 \$1,739 \$506 \$467 \$973 \$211 \$235 \$1,419 Miloway DE \$1,211 \$19 \$1,022 \$806 \$3,060 \$1,288 \$368 \$368 \$422 \$2,657 Miloway DE \$553 \$195 \$279 \$302 \$1,329 \$3,047 \$1,388 \$1,888 \$422 \$2,657 Miloway DE \$553 \$10 \$0 \$0 \$1,398 \$4,483 \$1,388 \$1,263 \$6,29 Unused DE \$15,617 \$5,211 \$9,980 \$40,009 \$6,391 \$7,632 \$14,023 \$2,528 \$2,717 \$19,267 Totals-Municipalities \$3,890,805 \$748,431 \$1,535,121 \$2,357,720 \$8,532,076 \$1,767,283 \$1,349,771 \$3,117,064 \$453,429 \$666,858 \$4,237,350 Industrials-Ceorgia Pacific \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$3,423		Wrenshall	DE	\$9,481	\$1,359	\$5,577	\$6,048	\$22,464	\$3,320	\$2,339	\$5.658	\$1.323	\$1 407	\$8.388	\$30.851
Midway DE \$1,211 \$19 \$1,022 \$806 \$3,060 \$1,218 \$650 \$1,868 \$368 \$422 \$2,657 MPCA Landfill DE \$553 \$195 \$279 \$302 \$1,329 \$3,047 \$1,396 \$4,443 \$1,123 \$1,263 \$6,829 Unused DE \$15,617 \$5,211 \$9,201 \$9,980 \$40,099 \$6,391 \$7,632 \$14,023 \$2,528 \$2,777 \$19,267 Totals-Municipalities \$3,880,805 \$748,431 \$1,535,121 \$2,357,720 \$8,532,076 \$1,767,293 \$1,4023 \$2,528 \$2,777 \$19,267 Totals-Municipalities \$3,880,805 \$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 Industrials-Georgia Pacific \$3,880,805 \$3,620,271 \$2,530,397 \$10,923,202 \$1,398,400 \$425,049 \$1,324 \$4,618 \$7,248 \$1,575 \$13,440 Sappi		Jay Cooke	DE	\$579	\$384	\$372	\$403	\$1,739	\$506	\$467	\$973	\$211	\$235	\$1 419	\$3.158
MPCA Landfill DE \$553 \$196 \$279 \$302 \$1,329 \$3,047 \$1,396 \$4,443 \$1,123 \$1,633 \$6,829 Unused DE \$0		Midway	DE	\$1,211	\$19	\$1,022	\$806	\$3,060	\$1,218	\$650	\$1.868	\$368	\$422	\$2,657	\$5 717
Unused DE \$0 <th< td=""><td>•</td><td>MPCA Landfill</td><td>DE</td><td>\$553</td><td>\$195</td><td>\$279</td><td>\$302</td><td>\$1,329</td><td>\$3,047</td><td>\$1.396</td><td>\$4.443</td><td>\$1.123</td><td>\$1 263</td><td>908 98</td><td>38 158 315 88</td></th<>	•	MPCA Landfill	DE	\$553	\$195	\$279	\$302	\$1,329	\$3,047	\$1.396	\$4.443	\$1.123	\$1 263	908 9 8	38 158 315 88
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 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 \$668,858 \$4,237,350 Industrials-Ceorgia Pacific \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,324 \$4,618 \$7,248 \$1,575 \$13,440 Sappi \$4,627,099 \$45,435 \$3,620,271 \$2,530,397 \$10,923,202 \$1,388,400 \$425,049 \$1,823,449 \$1,133,854 \$536,256 \$3,493,559 Sofidel \$365,628 \$43,828 \$30,671 \$31,325 \$471,451 \$331,210 \$141,514 \$472,724 \$435,511 \$50,083 \$958,318 USG \$18,612 \$5,577 \$177,333 \$187,396 \$488,918 \$54,314 \$21,459 \$75,773 \$51,552 \$10,000 \$237,325 Specialty Mine		Unused	DE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0		0.8	\$0,100 180
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 Industrials- Georgia Pacific \$0 \$0 \$0 \$0 \$0 \$0 \$3,294 \$1,324 \$4,618 \$7,248 \$1,575 \$13,440 \$90,600 \$0,60		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
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Georgia Pacific \$0 \$0 \$0 \$0 \$0 \$0 \$1,324 \$4,618 \$7,248 \$1,575 \$13,440 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 Soffdel \$365,628 \$43,828 \$30,671 \$31,325 \$471,451 \$331,210 \$141,514 \$472,724 \$435,511 \$50,083 \$958,318 USG \$118,612 \$5,577 \$177,333 \$187,396 \$488,918 \$54,314 \$21,459 \$75,773 \$51,552 \$110,000 \$237,325 Specialty Minerals \$52,143 \$1,398 \$558 \$54,233 \$108,332 \$21,812 \$8,845 \$30,656 \$167 \$29,185 \$60,008 Totals-Industrials \$5,163,481 \$96,238 \$3,828,833 \$2,903,350 \$11,991,903 \$1,809,030 \$58,190 \$2,407,220 \$1,628,331 \$727,098 \$4,762,650 Totals-All Users \$9,054,287 <td< td=""><td></td><td>Industrials-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		Industrials-													
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Sofidel \$365,628 \$43,828 \$30,671 \$31,325 \$471,451 \$331,210 \$141,514 \$472,724 \$435,511 \$50,083 \$958,318 USG \$118,612 \$5,577 \$177,333 \$187,396 \$488,918 \$54,314 \$21,459 \$75,773 \$51,552 \$110,000 \$237,325 \$9ecially Minerals \$52,143 \$1,398 \$558 \$54,233 \$108,332 \$21,812 \$8,845 \$30,656 \$167 \$29,185 \$60,008 \$10415-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 \$10415-All Users \$9,054,287 \$8,844,669 \$5,363,064 \$6,564,064		Sappi		\$4,627,099	\$45,435	\$3,620,271	\$2,630,397	\$10,923,202	\$1,398,400	\$425,049		\$1,133,854		\$3,493,559	\$14.416.761
USG \$118,612 \$5,577 \$177,333 \$187,396 \$488,918 \$54,314 \$21,459 \$75,773 \$51,552 \$110,000 \$237,325 \$9ecially Minerals \$52,143 \$1,398 \$558 \$54,233 \$108,332 \$21,812 \$8,845 \$30,656 \$167 \$29,185 \$60,008 \$10415-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 \$10415-All Users \$9,054,287 \$8,844,689 \$5,363,064 \$5,363,064 \$5,363,065 \$11,991,903 \$1,809,030 \$598,190 \$2,407,220 \$1,628,331 \$727,098 \$4,762,650		Sofidel		\$365,628	\$43,828	\$30,671	\$31,325	\$471,451	\$331,210	\$141,514		\$435.511		\$958.318	\$1 429 769
Specialty Minerals \$52,143 \$1,398 \$558 \$54,233 \$108,332 \$21,812 \$8,845 \$30,656 \$167 \$29,185 \$60,008 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 Totals-All Users \$9,054,287 \$8,844,689 \$5,363,064 \$5,961,070 \$5,762,070 \$2,407,220 \$1,628,331 \$727,098 \$4,762,650		USG		\$118,612	\$5,577	\$177,333	\$187,396	\$488.918	\$54.314	\$21,459		\$51.559		\$237 325	\$706.040
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 Totals-All Users \$9,054,287 \$844,669 \$5,363,054 \$5,261,070 \$2,676,577 \$64,057,054 \$7,054,057,057 \$7,057,057		Specialty Minerals		\$52,143	\$1,398	\$558	\$54,233	\$108,332	\$21,812	\$8,845	\$30,656	\$167		\$60,008	\$168,340
Totals-All Users \$9.054.287 \$844.689 \$5.363.054 \$5.363.054 \$5.050 \$5.050.050 \$5.050.050 \$5.050.050		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	\$797 NO8	€A 782 850	@16 7F.4 FF.0
		Totals-All I lsers		\$0 054 987	9044	9 000	2000								

2024 FLOW (MGD)

	BUDGET 2024	AVG THROUGH 12/31/2024	VÄRIANCE
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 SHOI_	0.050	0.059	0.009
MUNICIPAL SUBTOTA	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)
NDUSTRIAL SUBTOTA	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 (Includes Helb/Lars)	305	305	0
SCANLON 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_	21,397	23,389	1,992
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	20,250	28,830	8,580
TOTAL DISTRICT	41,647	52,219	10,572

2024 BOD (LBS/DAY)

	BUDGET 2024	AVG THROUGH 12/31/2024	
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 SHOL	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)