

**GRAND RAPIDS
PUBLIC UTILITIES**

Service is Our Nature

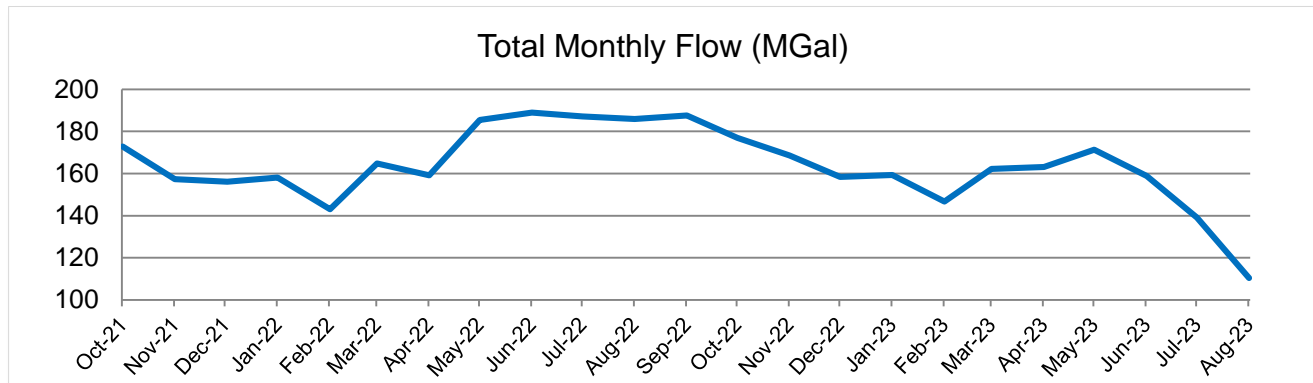
500 SE Fourth Street • Grand Rapids, Minnesota 55744

WASTEWATER UTILITY MONTHLY REPORT September 2023 Commission Meeting

Wastewater Operations

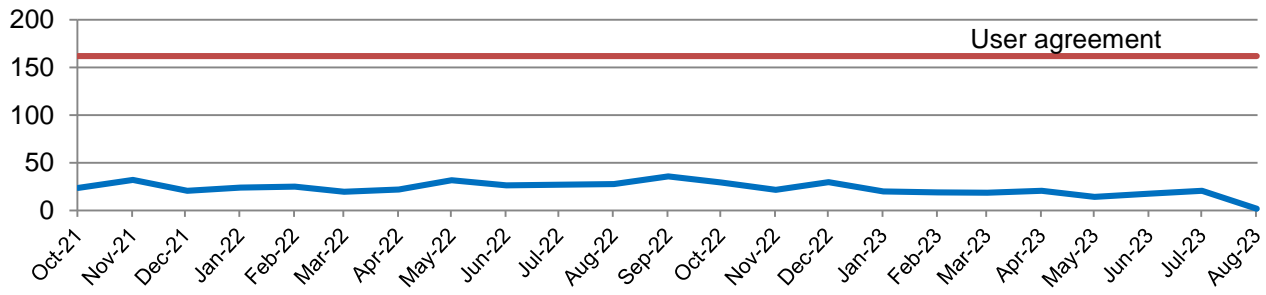
The Wastewater Treatment Plant (WWTP) met all National Pollutant Discharge Elimination System (NPDES) permit requirements last month. We treated 110 million gallons of water removing 98.0% of the Total Suspended Solids (TSS) and 98.8% Biochemical Oxygen Demand (cBOD).

WWTP has been managing primary solids to be able to continue to operate while the paper mill has been down. WWTP operators have been assisting with maintenance throughout the facility and collection system.



	Design Limits (monthly AVG)	Actual Results
<u>Primary Plant</u>		
Flow (MGD)	13.25	2.2
TSS (Tons/day)	162	1.8
TSS Peak (Tons/Day)	284	9.9

Primary Plant TSS (Tons/day)



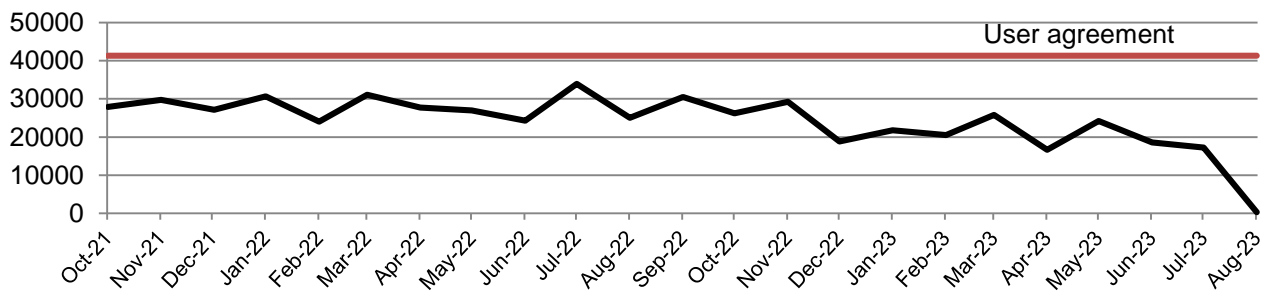
Design Limits
(monthly AVG)

Actual Results

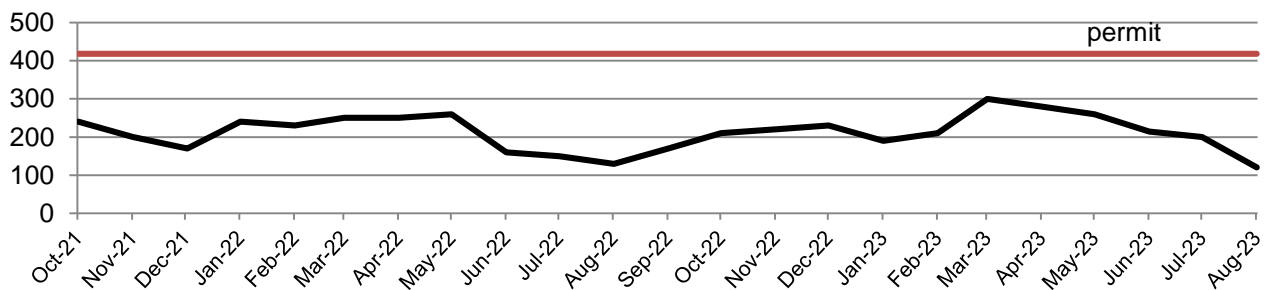
Secondary Plant

Flow (MGD)	15.25	3.6
cBOD (lbs/Day)	41,300	2,897
Peak cBOD (lbs/Day)	57,350	4,712
Zinc-weekly (ug/L)	418	120
% GRPUC		30.0% (min)

Industrial cBOD to Secondary Plant (Lbs/day)



Zinc-weekly (ug/L)

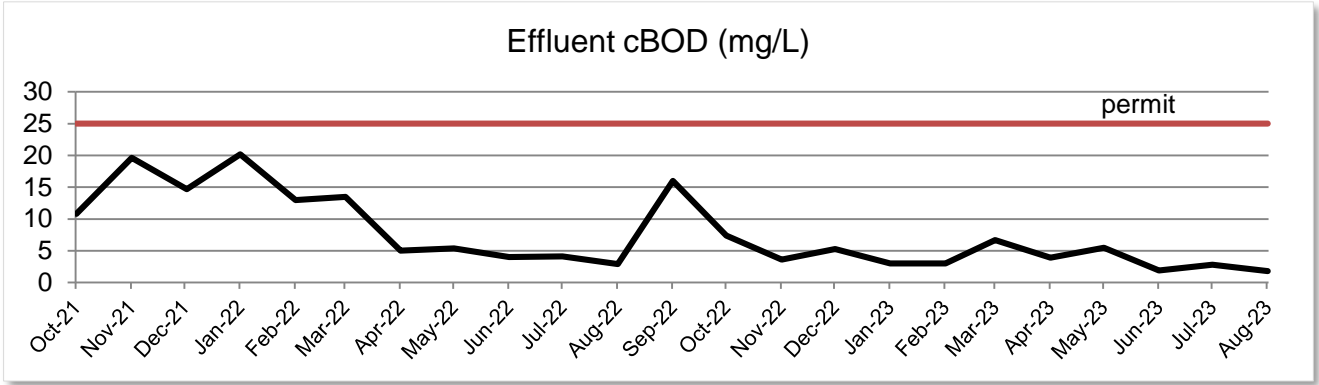
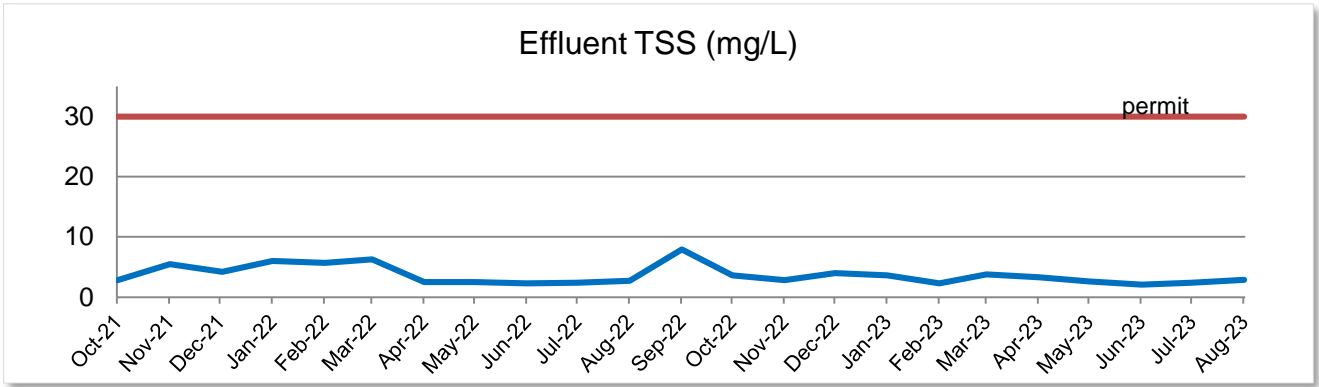


Permit Limits
(monthly AVG)

Actual Results

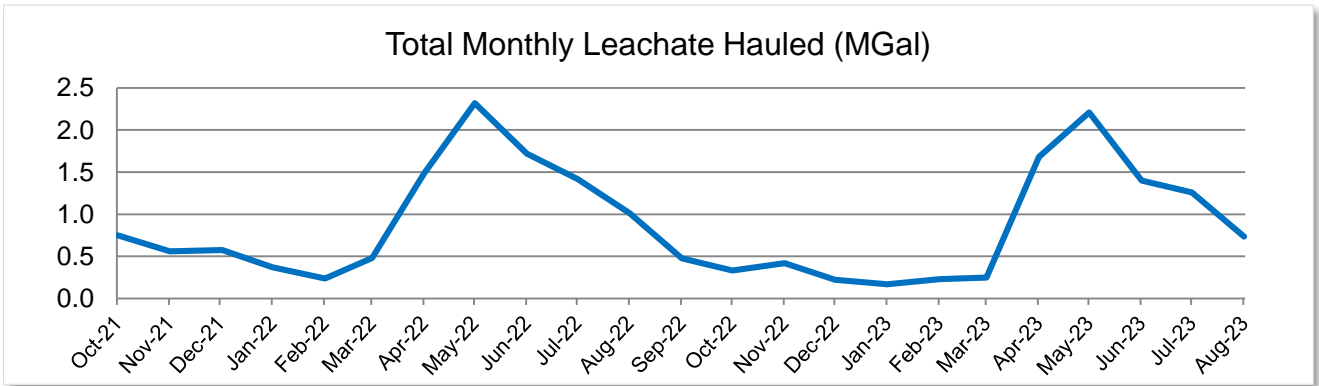
Effluent

TSS (mg/L) – monthly average	30	2.9
cBOD (mg/L) – monthly average	25	1.8
Dissolved Oxygen (mg/L)	>1.0	6.2



Sludge Landfill Operations

- 0.74 million gallons of leachate were hauled last month, the majority was surface water.
- 852 cubic yards of sludge solids were hauled to the landfill



Capital and Operations Project Summary

COMMISSION REPORT CONTENTS										
Agency						Amount	Percent	Percent		
Lead	Dept	Proj Desc	Proj #	Budget	Spent	(calc'd)	Comple	Status	Noted Issues / Highlights	
City	WWC	Sylvan Overlays	WWCO2310	\$1,010,000	\$0	0%	100%	In Progress		
GRPU	WWC	Category 1 - Piping Repairs	WWCO2308	\$350,000	\$0	0%	0%	Not Started		
City	WWC	River Road Roundabout	WWCO2312	\$210,959	\$0	0%	100%	In Progress		
GRPU	WWC	Jetting		\$150,000	\$55,000	37%	70%	In Progress		
GRPU	WWC	Jetting Camera	WWCO2303	\$60,000	\$55,000	92%	100%	Completed		
City	WWC	6th Ave NW (4th-5th)	WWCO2302	\$52,000	\$0	0%	0%	Not Started		
GRPU	WWC	Lift Station 2 - Generator and Switch	WWCO2207	\$36,490	\$36,490	100%	95%	In Progress		
GRPU	WWC	Lift Station Pumps	WWCO2005	\$35,000	\$34,460	98%	100%	Completed		
GRPU	WWC	Lift Station 8 Controls Update	WWCO2601	\$35,000	\$20,250	58%	60%	In Progress		
GRPU	WWC	Lift Station 6 I/I Repairs	WWCO2307	\$35,000	\$5,520	16%	60%	In Progress		
GRPU	WWC	Lift Station 9 Controls Update	WWCO2304	\$35,000	\$19,250	55%	60%	In Progress		
GRPU	WWC	Lift Station 3 - Generator and Switch	WWCO2208	\$32,825	\$32,825	100%	95%	In Progress		
GRPU	WWC	Lift Station 2 Pump	WWCO2305	\$25,000	\$22,800	91%	100%	Completed		
GRPU	WWC	Clinic Lift Alarm Agent	WWCO2103	\$20,000	\$8,085	40%	80%	In Progress		
GRPU	WWC	Manhole Replacements	WWCO1805	\$20,000	\$0	0%	0%	Not Started		
GRPU	WWC	Mains and Services	WWCO1804	\$15,000	\$0	0%	0%	Not Started		
GRPU	WWC	Lift Station 2 Flow Meter	WWCO2309	\$8,000	\$0	0%	0%	Not Started		
GRPU	WWT	Septic Hauler Dump Station	WWSP2301	\$350,000	\$0	0%	0%	Not Started		
GRPU	WWT	Landfill Cover Work Ph 1-4, Ket D	WWSD2301	\$250,000	\$23,940	10%	90%	In Progress		
GRPU	WWT	Secondary Aeration Basin Mixer Repa	WWSP1804	\$175,000	\$10,000	6%	45%	In Progress		
GRPU	WWT	Rebuild Domestic Screen	WWDO1801	\$150,000	\$108,625	72%	100%	Completed		
GRPU	WWT	Replace Fiber ASV to CSC	WWSC2301	\$54,000	\$0	0%	0%	Not Started		
GRPU	WWT	Bleach Tank Replacement	WWSP2302	\$50,000	\$43,300	87%	95%	In Progress		
GRPU	WWT	Sludge Screw Conveyor - Screw	WWPP2103	\$50,000	\$0	0%	50%	In Progress		
GRPU	WWT	Demo of old Primary Plant	WWPP2001	\$50,000	\$0	0%	0%	Not Started		
GRPU	WWT	Trash Compactor	WWDO2302	\$50,000	\$0	0%	20%	In Progress		
GRPU	WWT	Painting Primary Clarifiers	WWPP2003	\$40,000	\$30,185	75%	100%	Completed		
GRPU	WWT	Primary Plant Sludge Pumps	WWPP2303	\$28,000	\$19,156	68%	50%	In Progress		
GRPU	WWT	Primary Sludge Pump VFD	WWPP2301	\$24,000	\$0	0%	0%	Not Started		
GRPU	WWT	Landfill Phase Pumps	WWSD2302	\$18,000	\$0	0%	0%	Not Started		
GRPU	WWT	Forks for Front End Loader	WWPP2202	\$12,000	\$9,500	79%	100%	Completed		
GRPU	WWT	Replace Fiber Segment 1	WWSH2302	\$12,000	\$0	0%	0%	Not Started		
GRPU	WWT	VFD Upgrades for Lift Pumps	WWSH2301	\$12,000	\$0	0%	15%	In Progress		
GRPU	WWT	Leachate Phase Pump	WWSD2101	\$8,000	\$0	0%	0%	Not Started		
GRPU	WWT	Screw Press VFD	WWPP2302	\$8,000	\$0	0%	0%	Not Started		
GRPU	WWT	Flow Meter for Domestic Flow	WWDO2301	\$7,000	\$0	0%	0%	Not Started		
GRPU	WWT	WWTP Alarm Agent	WWPP2304	\$6,500	\$6,000	92%	85%	In Progress		

Status Definitions

Not Started - no human or financial resources utilized

In Progress - time or money spent on the project

In Service - operational but final close out needed

Completed - done and closed out

On Hold - waiting on some type of significant action