

GRAND RAPIDS
PUBLIC UTILITIES

Service is Our Nature

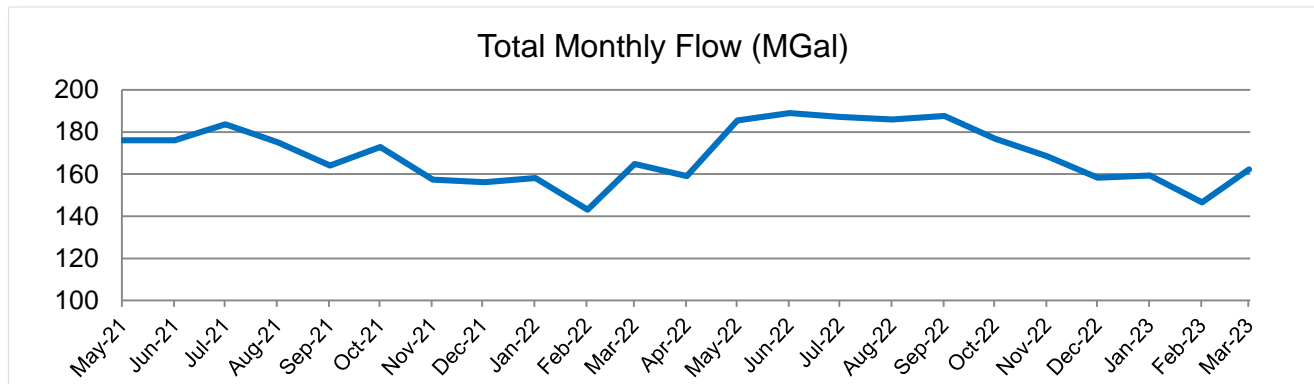
500 SE Fourth Street • Grand Rapids, Minnesota 55744

WASTEWATER UTILITY MONTHLY REPORT April 2023 Commission Meeting

Wastewater Operations

The Wastewater Treatment Plant (WWTP) met all National Pollutant Discharge Elimination System (NPDES) permit requirements last month. We treated 162 million gallons of water removing 99.6% of the Total Suspended Solids (TSS) and 99.2% Biochemical Oxygen Demand (cBOD).

We passed all lab performance testing for the annual lab certification.



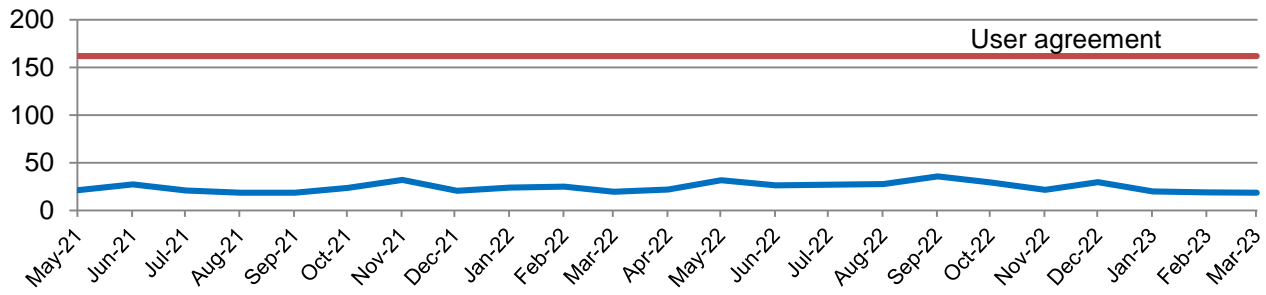
Design Limits
(monthly AVG)

Actual Results

Primary Plant

Flow (MGD)	13.25	4.0
TSS (Tons/day)	162	18.8
TSS Peak (Tons/Day)	284	36.7

Primary Plant TSS (Tons/day)

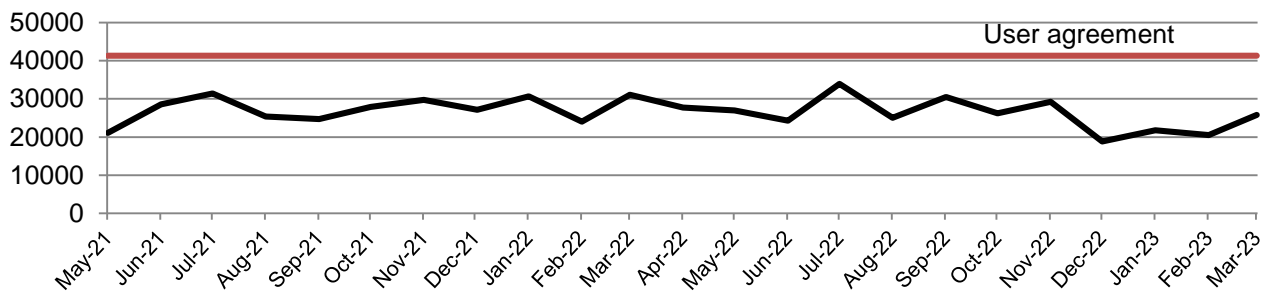
Design Limits
(monthly AVG)

Actual Results

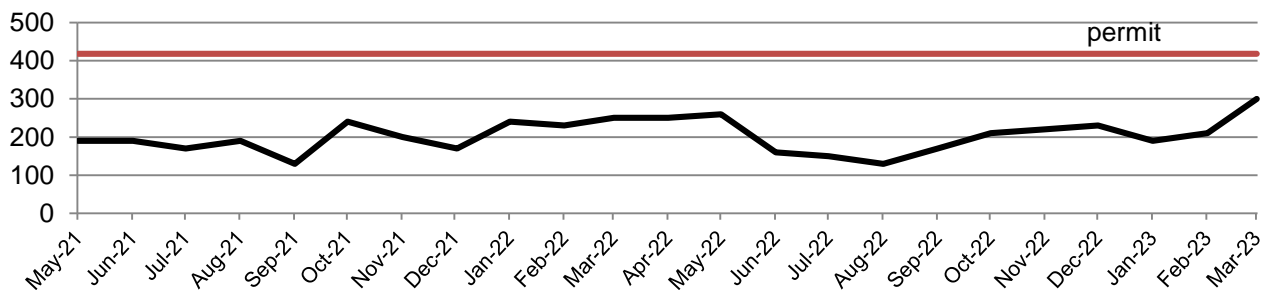
Secondary Plant

Flow (MGD)	15.25	5.2
cBOD (lbs/Day)	41,300	28,296
Peak cBOD (lbs/Day)	57,350	40,953
Zinc-weekly (ug/L)	418	300
% GRPUC		26.7%

Industrial cBOD to Secondary Plant (Lbs/day)



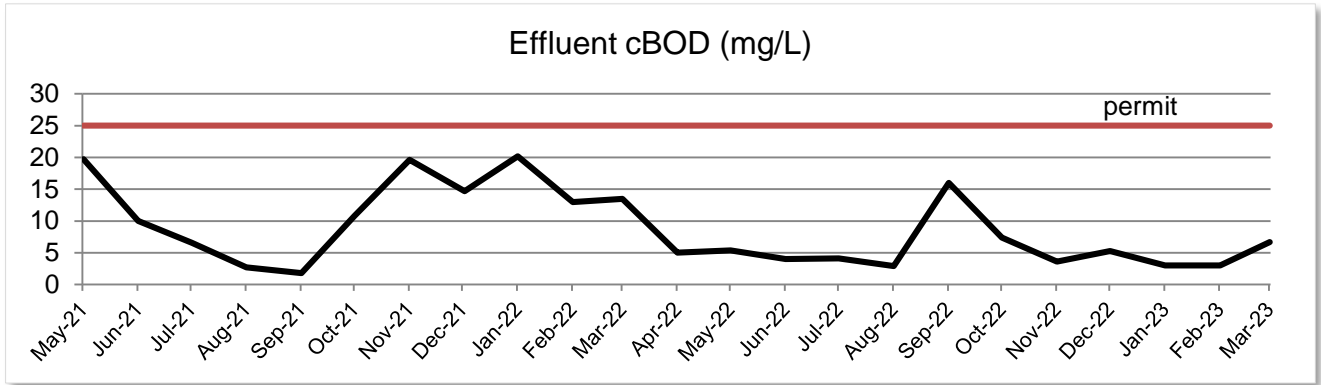
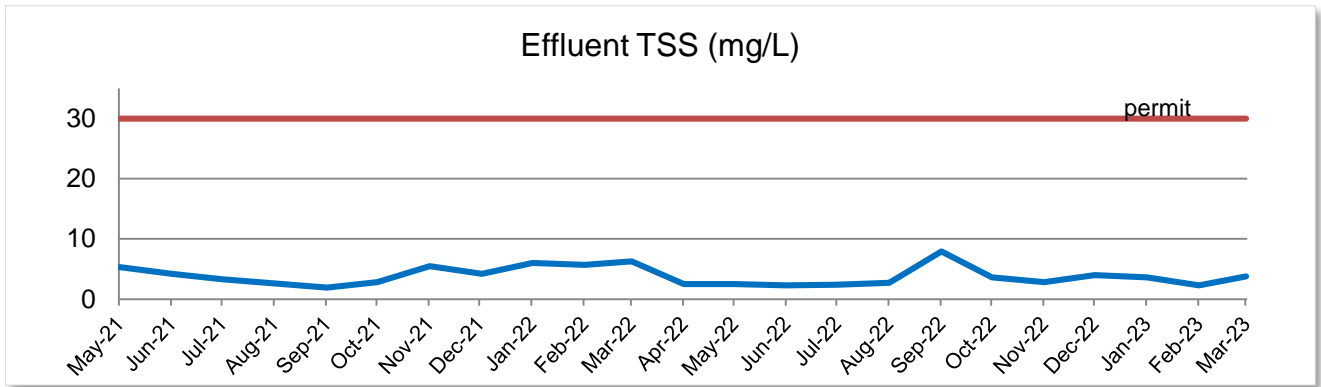
Zinc-weekly (ug/L)

Permit Limits
(monthly AVG)

Actual Results

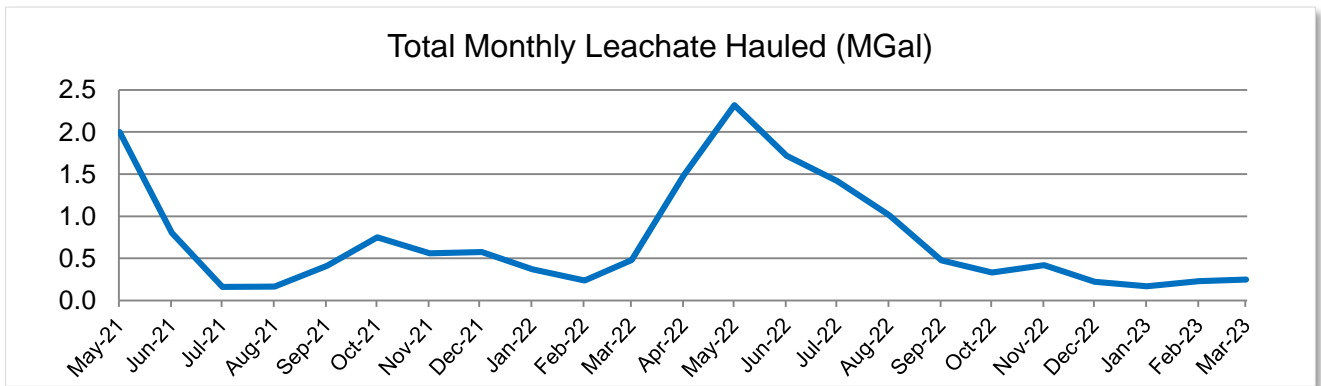
Effluent

TSS (mg/L) – monthly average	30	3.8
cBOD (mg/L) – monthly average	25	6.7
Dissolved Oxygen (mg/L)	>1.0	8.2



Sludge Landfill Operations

- 0.25 million gallons of leachate were hauled last month which is typical for the month of January.
- 3,588 cubic yards of sludge solids were hauled to the landfill



Capital and Operations Project Summary

COMMISSION REPORT CONTENTS																	
Agency						Amount	Percent										
Lead	▼	Dept	▼	Proj Desc	▼	Proj #	▼	Budget	▼	Spent	▼	Comple	▼	Status	▼	Noted Issues / Highlights	▼
City		WWC		Sylvan Overlays		WWCO2310		\$1,010,000		\$0		0%		Not Started			
GRPU		WWC		Category 1 - Piping Repairs		WWCO2308		\$350,000		\$0		0%		Not Started			
City		WWC		River Road Roundabout		WWCO2312		\$210,959		\$0		0%		Not Started			
GRPU		WWC		Jetting				\$150,000		\$0		0%		Not Started			
GRPU		WWC		Jetting Camera		WWCO2303		\$60,000		\$55,000		75%		In Progress			
City		WWC		6th Ave NW (4th-5th)		WWCO2302		\$52,000		\$0		0%		Not Started			
GRPU		WWC		Lift Station 2 - Generator and Switch		WWCO2207		\$36,490		\$0		10%		In Progress			
GRPU		WWC		Lift Station Pumps		WWCO2005		\$35,000		\$34,460		20%		In Progress			
GRPU		WWC		Lift Station 8 Controls Update		WWCO2601		\$35,000		\$20,100		15%		In Progress			
GRPU		WWC		Lift Station 6 I/I Repairs		WWCO2307		\$35,000		\$0		0%		Not Started			
GRPU		WWC		Lift Station 9 Controls Update		WWCO2304		\$35,000		\$19,100		15%		In Progress			
GRPU		WWC		Lift Station 3 - Generator and Switch		WWCO2208		\$32,825		\$0		10%		In Progress			
GRPU		WWC		Lift Station 2 Pump		WWCO2305		\$25,000		\$0		0%		Not Started			
GRPU		WWC		Clinic Lift Alarm Agent		WWCO2103		\$20,000		\$8,085		25%		In Progress			
GRPU		WWC		Manhole Replacements		WWCO1805		\$20,000		\$0		0%		Not Started			
GRPU		WWC		Mains and Services		WWCO1804		\$15,000		\$0		0%		Not Started			
GRPU		WWC		Lift Station 2 Flow Meter		WWCO2309		\$8,000		\$0		0%		Not Started			
GRPU		WWT		Septic Hauler Dump Station		WWSP2301		\$350,000		\$0		0%		Not Started			
GRPU		WWT		Landfill Cover Work Ph 1-4, Ket D		WWSD2301		\$250,000		\$0		0%		Not Started			
GRPU		WWT		Secondary Aeration Basin Mixer Repa		WWSP1804		\$175,000		\$0		0%		Not Started			
GRPU		WWT		Rebuild Domestic Screen		WWDO1801		\$150,000		\$0		0%		Not Started			
GRPU		WWT		Replace Fiber ASV to CSC		WWSC2301		\$54,000		\$0		0%		Not Started			
GRPU		WWT		Bleach Tank Replacement		WWSP2302		\$50,000		\$29,730		25%		In Progress			
GRPU		WWT		Sludge Screw Conveyor - Screw		WWPP2103		\$50,000		\$0		0%		Not Started			
GRPU		WWT		Demo of old Primary Plant		WWPP2001		\$50,000		\$0		0%		Not Started			
GRPU		WWT		Trash Compactor		WWDO2302		\$50,000		\$0		0%		Not Started			
GRPU		WWT		Painting Primary Clarifiers		WWPP2003		\$40,000		\$0		0%		Not Started			
GRPU		WWT		Primary Plant Sludge Pumps		WWPP2303		\$28,000		\$0		0%		Not Started			
GRPU		WWT		Primary Sludge Pump VFD		WWPP2301		\$24,000		\$0		0%		Not Started			
GRPU		WWT		Landfill Phase Pumps		WWSD2302		\$18,000		\$0		0%		Not Started			
GRPU		WWT		Forks for Front End Loader		WWPP2202		\$12,000		\$0		0%		Not Started			
GRPU		WWT		Replace Fiber Segment 1		WWSH2302		\$12,000		\$0		0%		Not Started			
GRPU		WWT		VFD Upgrades for Lift Pumps		WWSH2301		\$12,000		\$0		0%		Not Started			
GRPU		WWT		Leachate Phase Pump		WWSD2101		\$8,000		\$0		0%		Not Started			
GRPU		WWT		Screw Press VFD		WWPP2302		\$8,000		\$0		0%		Not Started			
GRPU		WWT		Flow Meter for Domestic Flow		WWDO2301		\$7,000		\$0		0%		Not Started			
GRPU		WWT		WWTP Alarm Agent		WWPP2304		\$6,500		\$6,000		25%		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