# March 2023

#### OPERATIONS' DEPARTMENT MONTHLY REPORT

	HIGH	LIFT	LOV	V LIFT	2023 VS 2022
PUMPAGE	2022	2023	2022	2023	HL
Total in MG	363.796	357.427	363.783	372.929	-1.75%
Daily Average (MG)	11.735	11.548	11.735	12.030	
Max. Day (MG)	12.938	12.760	13.046	13.100	2023 VS 2021
					HL
Gal/KwH	1,192	1,188	4,832	4,886	-3.13%
ELECTRICAL COSTS					
ELECTRICAL COOTS	2022	1		2023	
A. Pumping:	KwH	\$	KwH	\$	
High Lift	302,349	\$22,443.33	299,307	\$24,936.75	
Low Lift	74,889	\$5,559.01	75,838	\$6,318.44	
Wash Pump 1	2,800	\$207.84	10,500	\$874.81	
Georgia St. Bstr.	51,600	\$5,044.52	59,700	\$5,977.28	
Wilgus Ave. Bstr.	3,500	\$470.30	3,000	\$428.91	
EE Pit / Bstr.	6,357	\$814.50	6,450	\$874.79	Φ/IZI.I
Erie Ave. Bstr.	0	\$0.00	16,000	\$2,397.48	\$/KwH
Sub Total	441,495	\$34,539.50	470,795	\$41,808.46	13.5%
3. Treat./Fiscal/Misc.	KwH	\$	KwH	\$	
Office & Maint. Bldg.	3,910	\$407.83	4,858	\$675.38	
Filter Plant / Pump Station / 2nd Service	63,362	\$5,197.94	63,155	\$5,924.06	
<u> </u>			,		\$/KwH
Sub Total	67,272	\$5,605.77	68,013	\$6,599.44	16.4%
C. Distribution:	KwH	\$	KwH	\$	
Taylor Hill Tank	2,529	\$339.83	2,622	\$370.45	
Kohler Meter Pit	0	\$0.00	0	\$0.00	
EE Tower	1,957	\$271.43	1,449	\$214.49	
Washington (PRV) Pit	1,509	\$223.04	1,096	\$175.48	
Sub Total	5,995	\$834.30	5,167	\$760.42	\$/KwH
Total Electrical Costs	514,762	\$40,979.57	543,975	\$49,168.32	13.5%
Electrical Cost / MG	<u>.l</u>	\$112.64		\$137.35	
	2022			2023	
NATURAL GAS COSTS	CCF Used	Cost	CCF Used	Cost	
Production Facility	2,386	\$1,501.75	1,903	\$1,646.12	
South Basin	3,083	\$1,892.74	2,705	\$2,473.37	
Georgia St. Bstr.	182	\$135.97	143	\$150.66	
Erie Ave. Bstr.	362	\$255.20	315	\$292.53	
Wilgus Ave. Bstr.	55	\$50.00	49	\$61.75	
Office & Maint. Bldg.	941	\$584.53	1,130	\$1,042.99	\$/CCF
Total Natural Gas Costs	7,009	\$4,420.19	6,245	\$5,667.42	43.9%
Natural Gas Cost / MG		\$12.15		\$15.83	
	2022			2023	
CHEMICAL COSTS		Cost	Lbs. Used	Cost	
	LDS. USEG				44.00/
Alum	Lbs. Used 68.226	_	81 009	\$16 323 31 <b>I</b>	1,17/0
Alum Carbon	68,226 0	\$12,383.02 \$0.00	81,009 0	\$16,323.31 \$0.00	11.0% #DIV/0!
	68,226	\$12,383.02			
Carbon	68,226 0	\$12,383.02 \$0.00	0	\$0.00	#DIV/0!
Carbon Chlorine Fluoride KMnO4	68,226 0 7,018 1,856 0	\$12,383.02 \$0.00 \$10,386.64 \$2,579.84 \$0.00	0 6,776 1,643 0	\$0.00 \$13,755.28 \$3,321.32 \$0.00	#DIV/0! 37.2% 45.4% #DIV/0!
Carbon Chlorine Fluoride KMnO4 Cationic Polymer	68,226 0 7,018 1,856 0 1,417	\$12,383.02 \$0.00 \$10,386.64 \$2,579.84 \$0.00 \$2,196.97	0 6,776 1,643 0 1,374	\$0.00 \$13,755.28 \$3,321.32 \$0.00 \$2,129.70	#DIV/0! 37.2% 45.4% #DIV/0! 0.0%
Carbon Chlorine Fluoride KMnO4 Cationic Polymer Liquid Phosphate	68,226 0 7,018 1,856 0	\$12,383.02 \$0.00 \$10,386.64 \$2,579.84 \$0.00 \$2,196.97 \$5,489.86	0 6,776 1,643 0	\$0.00 \$13,755.28 \$3,321.32 \$0.00 \$2,129.70 \$12,239.06	#DIV/0! 37.2% 45.4% #DIV/0! 0.0% 93.9%
Carbon Chlorine Fluoride KMnO4 Cationic Polymer Liquid Phosphate Total Chemical Costs	68,226 0 7,018 1,856 0 1,417	\$12,383.02 \$0.00 \$10,386.64 \$2,579.84 \$0.00 \$2,196.97 \$5,489.86 \$33,036.33	0 6,776 1,643 0 1,374	\$0.00 \$13,755.28 \$3,321.32 \$0.00 \$2,129.70 \$12,239.06 \$47,768.68	#DIV/0! 37.2% 45.4% #DIV/0! 0.0%
Carbon Chlorine Fluoride KMnO4 Cationic Polymer Liquid Phosphate	68,226 0 7,018 1,856 0 1,417	\$12,383.02 \$0.00 \$10,386.64 \$2,579.84 \$0.00 \$2,196.97 \$5,489.86	0 6,776 1,643 0 1,374	\$0.00 \$13,755.28 \$3,321.32 \$0.00 \$2,129.70 \$12,239.06	#DIV/0! 37.2% 45.4% #DIV/0! 0.0% 93.9%
Carbon Chlorine Fluoride KMnO4 Cationic Polymer Liquid Phosphate Total Chemical Costs	68,226 0 7,018 1,856 0 1,417 3,479	\$12,383.02 \$0.00 \$10,386.64 \$2,579.84 \$0.00 \$2,196.97 \$5,489.86 \$33,036.33	0 6,776 1,643 0 1,374	\$0.00 \$13,755.28 \$3,321.32 \$0.00 \$2,129.70 \$12,239.06 <b>\$47,768.68</b> \$133.44	#DIV/0! 37.2% 45.4% #DIV/0! 0.0% 93.9% 44.6%
Carbon Chlorine Fluoride KMnO4 Cationic Polymer Liquid Phosphate Total Chemical Costs	68,226 0 7,018 1,856 0 1,417	\$12,383.02 \$0.00 \$10,386.64 \$2,579.84 \$0.00 \$2,196.97 \$5,489.86 \$33,036.33	0 6,776 1,643 0 1,374	\$0.00 \$13,755.28 \$3,321.32 \$0.00 \$2,129.70 \$12,239.06 \$47,768.68	#DIV/0! 37.2% 45.4% #DIV/0! 0.0% 93.9%
Carbon Chlorine Fluoride KMnO4 Cationic Polymer Liquid Phosphate Total Chemical Costs Chemical Cost / MG	68,226 0 7,018 1,856 0 1,417 3,479 Grand Total Total Cost / MG	\$12,383.02 \$0.00 \$10,386.64 \$2,579.84 \$0.00 \$2,196.97 \$5,489.86 \$33,036.33 \$90.81 \$78,436.09 \$215.60	0 6,776 1,643 0 1,374 4,001	\$0.00 \$13,755.28 \$3,321.32 \$0.00 \$2,129.70 \$12,239.06 \$47,768.68 \$133.44 \$102,604.42 \$286.62	#DIV/0! 37.2% 45.4% #DIV/0! 0.0% 93.9% 44.6%
Carbon Chlorine Fluoride KMnO4 Cationic Polymer Liquid Phosphate Total Chemical Costs	68,226 0 7,018 1,856 0 1,417 3,479	\$12,383.02 \$0.00 \$10,386.64 \$2,579.84 \$0.00 \$2,196.97 \$5,489.86 \$33,036.33 \$90.81 \$78,436.09 \$215.60	0 6,776 1,643 0 1,374	\$0.00 \$13,755.28 \$3,321.32 \$0.00 \$2,129.70 \$12,239.06 \$47,768.68 \$133.44 \$102,604.42	#DIV/0! 37.2% 45.4% #DIV/0! 0.0% 93.9% 44.6%

NOTE:	
2023 Flactrical costs include an Alliant Energy 8.3% rate increase approved by PSC	

	YTD HL Ave Day
2023	11.448
2022	12.036
2021	11.752

### COMPARATIVE SUMMARY OF PLANT OPERATIONS

			March 2022	vs	March 2023	_	
Pumping Record	rd <b>High Lift</b>		Low Lift				
΄ ઁ Γ	2022	2023	Diff.	Γ	2022	2023	Diff.
Tot. Water in MG	363.796	357.427	-1.75%	Tot. Water in MG	363.783	372.929	2.51%
Daily Average	11.735	11.548	-1.59%	Daily Average	11.735	12.030	2.51%
Maximum Day	12.938	12.760	-1.38%	Maximum Day	13.046	13.100	0.41%
Minimum Day	9.904	9.645	-2.62%	Minimum Day	9.979	9.869	-1.10%
By Natural Gas	3.474	2.365	-31.92%	By Natural Gas	1.939	2.365	21.97%
Power in KWH	302,349	299,307	-1.01%	Power in KWH	74,889	75,838	1.27%
Gals. per KWH	1,192	1,188	-0.32%	Gals. per KWH	4,832	4,886	1.12%
Power \$ / KWH	\$0.07423	\$0.08331	12.24%	Power \$ / KWH			
Power \$ / MG	\$61.69	\$69.66	\$7.97	Power \$ / MG	\$15.28	\$16.94	\$1.66
Tot. Power \$/MG	\$113.89	\$138.49	\$24.60	Tot. Power \$/MG			
Treatment Chem.	Lbs. L	Jsed				Cost	
Total Lbs.	2022	2023	Diff.	Total Cost	2022	2023	Diff.
Alum	68,226	81,009	18.74%	Alum	\$12,383.02	\$16,323.31	\$3,940.29
Carbon	·	•	#DIV/0!	Carbon	\$0.00	\$0.00	\$0.00
Chlorine	7,018	6,776	-3.45%	Chlorine	\$10,386.64	\$13,755.28	\$3,368.64
KMnO4	0	0	#DIV/0!	KMnO4	\$0.00	\$0.00	\$0.00
Polymer	1,417	1,374	-3.03%	Polymer	\$2,196.97	\$2,129.70	(\$67.27)
Liquid Phosphate	3.479	4,001	15.00%	Liquid Phosphate	\$5,489.86	\$12,239.06	\$6,749.20
_b/ MG:	, ,	,		Cost / MG:	, ,	, ,	, , ,
Alum	187.5	217.2	15.82%	Alum	\$34.04	\$43.77	\$9.73
Carbon	0.0	0.0	#DIV/0!	Carbon	#DIV/0!	#DIV/0!	#DIV/0!
Chlorine	19.3	18.2	-5.82%	Chlorine	\$28.55	\$36.88	\$8.33
KMnO4	0.0	0.0	#DIV/0!	KMnO4	#DIV/0!	#DIV/0!	#DIV/0!
Liquid Phosphate	9.6	10.7	12.18%	Liquid Phosphate	\$15.09	\$32.82	\$17.73
Fluoride:	2022	2023		Fluoride:	2022	2023	7
Total Lbs.	1,856	1,643	-11.48%	Cost	\$2,579.84	\$3,321.32	\$741.48
mg/l applied as F	0.67	0.74	-11.4070	Cost/MG	\$7.10	\$9.29	\$2.19
Av. Res. Plt. Tap	0.67	0.74		COSTINIG	Ψ1.10	ψ9.29	Ψ2.19
Av. Nes. Fit. Tap	0.07	0.7 1					
Water Quality:	Ray		•	-	TA		=
	2022	2023		,	2022	2023	
Turbidity	7.80	10.10		Turbidity	0.060	0.040	4
рН	8.24	8.23		pH	7.54	7.52	4
Alkalinity	114.0	118.2		Alkalinity	102.7	104.9	4
MF (E-Coli)	4.6	3.9		Plate Count	0.00	0.00	4
Temperature	35.0	35.8		Colilert	0	0	4
Wash-H20 % /LL	1.77	2.38		Temp.	36.2	37.6	1
Av. Flt. Run/hrs	148.9	93.7		CI Res.	0.84	0.88	_
Av. ROF / MG	1.32	1.41					
Natural Gas: Г	2022	2023		г	2022	2023	Diff.
Nat. Gas Heating	2,700		Plant & South Basin	լ Ի	\$5,208.32	\$3,635.34	(\$1,572.98
Nat. Gas Pumping	383	560	i idili G Outil Dasili	<b>'</b>	\$5,208.32	\$484.15	\$432.17
				<u> </u>	,	, , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,
	CCF	Cost	Natural Gas Cost				
#3 Gas Pump	130.2	\$112.62		4,608			
#4 Gas Pump	198.0	\$171.27					
#7 Gas Pumn	107.5	\$02.00	1				

107.5

124.0 559.7

#7 Gas Pump

Pumping totals

Electric Generator

\$92.99 \$107.26 **\$484.15** 

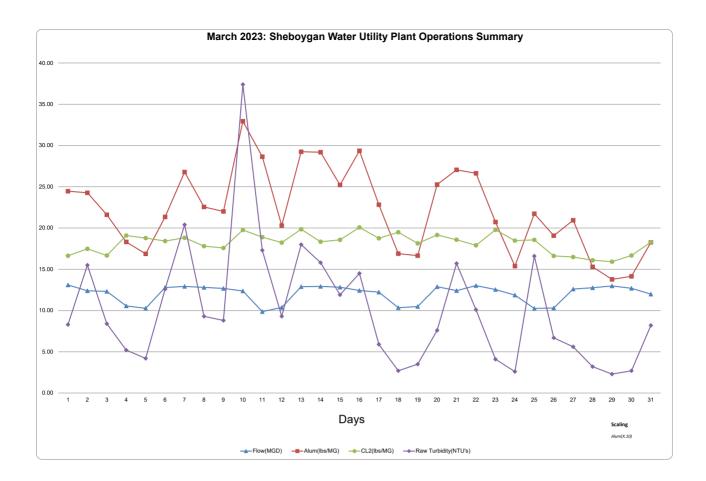
## March 2023

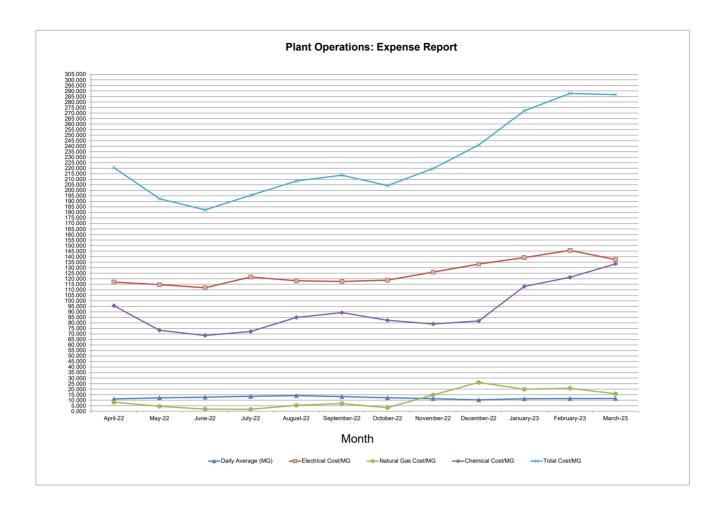
% Run <u>Elapsed Time:</u> 51.9% No. 6 Pump 71.433.3 71.046.8 386.5 SLUDGE No. I Hour Meter 0.0	0.0	
F4.00/ No. 6 Dump 74.422.2 74.046.9 200.5 CLUDOS No. 1 Llouis Mater	0.0	
51.9% No. 6 Pump   71,433.3   71,046.8   386.5   SLUDGE No. 1 Hour Meter   0.0	0.0	0
3.74% Wash Pump Meter 5,694.43 5,666.59 27.84 SYSTEM No. 2 Mag Meter 7,875,539	7,551,679	323,860
0.6% No. 7 Pump 799.4 795.1 4.3 Recycle Meter (Reset to zero each month)		323,860
0.0% No. 8 Pump 59,540.3 59,540.3 0.0	_	
99.3% No. 9 Pump 26,904.0 26,165.0 739.0		
1.2% Wash Pump 2 101 92 9 Power Cost \$0.0833150 Bill >>>>	\$37,591.71	
No. 1 Prime Pump 1,049.7 1,048.5 1.2 0.468608333 KWH >>>	451,200	
No. 2 Prime Pump 1,127.2 1,125.3 1.9 Init. Chg. \$37,491.73	Low L. KWH	75,838
\$ KWH	L.L. Cost \$	\$6,318.44
Kw/Hr run Watthour Meters: Kohler Pit	High L. KWH	299,307
377.2 Wash Pump 1 1306.1 1291.1 10,500 Horizon \$407.85 2,739	H.L. Cost \$	\$24,936.75
64.4 No. 9 Pump 5955.17 5907.61 47,558 Taylor \$370.45 2,622	_	
#DIV/0! No. 8 Pump 6837.1 6837.1 0 ALT. 72 Park \$562.33 1,200	Total Cost	\$31,255.19
73.2 No. 6 Pump 1629.2 1528.2 28,280 Geo. Ave. \$5,977.28 59,700	_	
128.5 Wash Pump 2 10.601 9.637 1,157 Wilgus Ave. \$428.91 3,000		
#DIV/0! No. 1 Pump 9443.776 9443.776 0 EE Pit \$874.79 6,450		
238.8 No. 2 Pump 4874.751 4854.237 20.514 EE Tower \$214.49 1,449	Plant Costs	\$5,924.06
295.7 No. 3 Pump 699.804 605.435 94,369 Washington \$175.48 1,096	_	
#DIV/0! No. 4 Pump 0 Office \$675.38 4,858		
479.4 No. 5 Pump 11,413.272 11,228.848 184,424 Erie Ave. \$2,397.48 16,000		
Total \$49,576.17 549,114		
Garage (MWatt/Hrs.) 1,089.30 1,086.45 2,850		
Power Co. (Step #3) 39,969 39,594 450,000		
Left Meter - OUTSIDE		
Volume Used:		
Nat. Gas (Correct) 45,742,605 45,578,104 206,778 SUMMARY		
HIGH LIFT	LOW LI	FT
2022 2023	2022	2023
Elapsed Time: Tot. Pump 363.796 357.984	363.783	372.929
Emer. Generator 1,077.3 1,071.1 6.2 Daily Ave. 11.735 11.548	11.735	12.030
Max. Day 12.938 12.760	13.046	13.100
% Run <b>Elapsed Time:</b> Min. Day 9.904 9.645	9.979	9.869
0.0% No. 1 Pump 17,512.5 17,512.5 0.0 By Nat. Gas 3.474 2.365	1.939	2.365
11.5% No. 2 Pump 20,800.16 20,714.26 85.90 Power KWH 302,349 299,307	74,889	75,838
42.9% No. 3 Elec. Pump 2,393.5 2,074.4 319.2 Gals/KWH 1192 1188	4832	4886
	*****	*****
0.0% No. 4 Elec. Pump 0.00 0.00 Cost/MG \$61.69 \$69.66	\$15.28	\$16.94
	*****	*****
51.7% No. 5. Pump 23,865.090 23,480.390 384.700	J.	
0.1% UV Building Generator 142.4 141.4 1		

HIGH LIFT DELIVERY	QUARTERLY REPORT	2023		
I. FIRST QUARTER	Jan - Feb - Mar			
		GALLONS	COST \$	\$/MG
	2022	1,079,805,000	\$233,346.76	\$216.10
	2023	1,028,642,000	\$290,526.13	\$282.44
	Percent Difference	-4.74%	24.50%	30.70%
		•		
II. SECOND QUARTER	Apr - May - Jun	GALLONS	COST \$	\$/MG
	2022	1,114,560,000	\$220,553.73	\$197.88
	LULL	1,114,000,000	Ψ220,000.70	ψ137.00
	2023	0	\$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!
II. THIRD QUARTER	Jul - Aug - Sep			
	·	GALLONS	COST \$	\$/MG
	2022	1,253,674,000	\$258,395.90	\$206.11
	2023	0	\$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!
V. FOURTH QUARTER	Oct - Nov - Dec			
		GALLONS	COST \$	\$/MG
	2022	1,040,483,000	\$229,995.97	\$221.05
	2023	0	\$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!
	r orderit piniorenide	100.0070	10010070	
YEAR TO DATE :	2023	Ī		
TEAR TO DATE :	2025	GALLONS	COST \$	\$/MG
	2022	4,488,522,000	\$942,292.36	\$209.93
ELECTRICITY				
CHEMICALS NATURAL GAS	2023	1,028,642,000	\$290,526.13	\$282.44
NATORAL GAG	Percent Difference	-77.08%	-69.17%	34.54%
YEAR TO DATE :	2023			
TEAR TO DATE.		GALLONS	COST \$	
	2022	4,203,119	\$35,328.38	
SLUDGE DISPOSAL to WWTP	2023	1,027,730	\$16,591.70	
	Percent Difference	-75.55%	-53.04%	
STORM WATER CHARGES	2023	NA	\$0.00	
HOLLLIET OVOTEN DEL MEDIC	_	-		
HIGH LIFT SYSTEM DELIVERY	: Maximum Pumpage Day	13,403,000	January 30, 2023	
	1 0 7	10, 100,000	January 00, 2020	
	Minimum Pumpage Day	9,294,000	January 1, 2023	

	MG	\$	\$/MG
2022	4,488,522,000	\$942,292.36	\$209.93
2023	1,028,642,000	\$290,526.13	\$282.44

NOTE: Monthly sludge disposal costs do not reflect the current actual monthly sludge discharge total to date. Filtrate discharges from Spring/Fall sludge disposal operations are included in treatment plant sludge disposal costs. Spring/Fall basin sludge/residual solids volumes and disposal costs are contract work. Sludge disposal costs are not included in \$/MG.





### Filter Plant Maintenance Completed For March 2023

Sublect	StartDate	EndDate	Description	Yellow indicates days operating or running labs
Low Lift Vacuum System	1-Mar-23	1	Clean low lift vacuum	pot and install new gaskets.
Sample customer water	1-Mar-23		Samples taken for wa	
Order battery backups	1-Mar-23			ery backups needed for office personnel, backups ordered
New hose #10 filter	1-Mar-23		New wash down hose	
Dan 2nd shift for Tyler	2-Mar-23	2-Mar-23	Dan covering 2nd shif	
Filter 6 Tool	2-Mar-23	Z-1VIGI -23		to be used for installing 1 1/1 caps.
Filter 11 Switches	2-Mar-23			hes on each actuator circuit.
Dakota Supply Group	2-Mar-23			itches to be installed on filter 11.
Truck 6	2-Mar-23			; knock sensor issue. Schedule appointment for next Friday at Genuine Mechanics.
Battery backups in office	3-Mar-23			led in administration office
Pipe Gallery	3-Mar-23		Gameplan pipe galler	
Filter plant trash	3-Iviai -23 3-Mar-23		Removed filter plant to	
Trillings	3-Mar-23			
Trillings	3-Mar-23		Trillings for filter plant	
Dan Lab operations	6-Mar-23	6-Mar-23		ers to be used during filter 6 maintenance.
		0-IVIAI -23	Dan covering lab oper	
UV Reference Information	6-Mar-23			V reference information into Excel.
UV Reactor Switch	6-Mar-23		Switch UV from West	
UV Reference Check	6-Mar-23			check on West UV reactor.
Monday Meeting	6-Mar-23			erence, UV switch from West to East, Pipe gallery maintenance with crew, Lab coverage, and Truck 6 service.
Pipe Gallery	6-Mar-23			strut, 3/8I rod, clevis hangers, and fasteners to hold electrical conduit and pipe in pipe gallery; between 7 and 9.
Tayor hill heaters	7-Mar-23		Taylor hill reservoir to	
Dakota supply group	7-Mar-23			or pipe gallery pipe hangers
Filter 6 Tap	8-Mar-23			or filter 6 maintenance.
Menards	8-Mar-23			pplies, 1 ⅓I iron pipe, beam clamps, gloves, and misc.
Dakota Supply Group	8-Mar-23			nd ¼I concrete drill bits; order 6I and 8I clevis hanger.
Sodium Hypo South Feed	9-Mar-23		Replace hose and fitti	ngs on South basin hypo feed line.
Filter Plant Trash removal	9-Mar-23		Filter Plant trash remo	ıval
Filter 5	9-Mar-23		Replace filter 5 backw	ash actuator switch.
Joshua 2 hours Sick Time	9-Mar-23		Joshua 2 hr. PT sessi	on.
Fabricate brackets flow meter	10-Mar-23		Fabricate brackets for	wash tank flow meter
Install flow meter brackets	10-Mar-23		Installed flow meter be	ackets for wash tank flow meter in pit
Filter plant truck	10-Mar-23		Dropped off filter plan	truck for repairs
Filter plant snow removal	10-Mar-23		Filter plant snow remo	oval
Replace raw water pump	11-Mar-23		Dan came in on week	end to replace leaking raw water pump
East UV Reactor	13-Mar-23		Diagnose low flow at	JVT% meter and misc. alarms triggered when put into manual UVT% mode; estop, high flow, etc.
Snow Removal	13-Mar-23		Shovel sidewalk, door	areas, and chemical delivery sites.
Monday Meeting	13-Mar-23		Topics include UV ala	rms. Wash tank flow meter, truck 6, H.L. 3, coverage, and snow removal.
Flow Meter	13-Mar-23		Continue installing str	ut hardware and cleanup.
H.L. Pump 3	13-Mar-23		Begin trouble shooting	gear oil leak; need to remove north cap.
H.L. Pump 3	13-Mar-23		Check North bearing	gear lube level; 1/2 quart low.
Roberts Filter Group	14-Mar-23			Gary from Roberts Filter Group.
Dakota Supply Group	14-Mar-23		Purchase sample pun	no rebuild kit, 3/8I threaded rod. Clevis hangers, and 6I electrical box.
Flow Meter	14-Mar-23		Install 1 1/2 conduit in	o floor, wall bracket, move sluice handles, and 6I electrical box.
Filter 4	14-Mar-23		Perform filter pressure	
Filter 1	14-Mar-23		Perform filter pressure	
Filter 7	14-Mar-23		Perform pressure test	
Flow Meter	14-Mar-23		Core 21 hole in floor fo	
Sample Pump	14-Mar-23		Rebuild sample pump	
Wash Tank Flow Meter	15-Mar-23			viring installation in south foyer vault.
Truck 6	15-Mar-23		Approve repair and pi	
Maintenance Shop	15-Mar-23		Sharpen drill bits, clea	
мантенансе эпор	10-Mai-23		snarpen unii bits, ciea	in noor, and organize.

South Fover	15-Mar-23		Vacuum and mop area.
Filter 11	16-Mar-23		Perform filter pressure test.
Joshua 2 hrs. Sick Time	16-Mar-23		Joshua 2 hrs. sick time for shoulder PT.
Filter 9	16-Mar-23		Pressure test filter 9.
Filter 3	16-Mar-23		Pressure test filter 3.
Joshua Covering 3rd Shift	17-Mar-23	17-Mar-23	Joshua covering 3rd shift for Mark.
Off loaded filter media	20-Mar-23	17 IVIGI 20	Off loaded filter media off semi-trucks
Menards	20-Mar-23		Purchase drill bits and counter/desk plugs.
Sodium Thio Eyewash Station	20-Mar-23		Flush sodium thio eyewash station.
DR5000 UPS Shelf	20-Mar-23		Install new shelf for DR5000 UPS.
Dan 2nd shift for GLen	21-Mar-23	21-Mar-23	Dan covering 2nd shift for Glen
H.L. Pump 4 Leak	21-Mar-23		Diagnose water leak effluent side of H.L. pump 4.
Filter 10	21-Mar-23		Begin cleaning up old/redundant wiring.
Filter 11	21-Mar-23		Remove old/redundant wiring, clean connections, and reroute wiring.
Filter 11 Diagnose	21-Mar-23		Diagnose possible wiring issue causing intermittent 0% rate of flow alarm; bad wire splice 2 feet from actuator.
Filter 11 Wiring	21-Mar-23		Pull new wire from table to rate of flow actuator.
Dan vacation	22-Mar-23	27-Mar-23	Dan on vacation
Filter 6	22-Mar-23		Begin removing Leopold caps.
Laboratory Upgrade	22-Mar-23		Begin contacting laboratory cabinet installer.
Filter 5	22-Mar-23		Perform pressure test.
East Basin South West Floc	22-Mar-23		Repair broken wire, check all other terminals, and reset system.
Raw Water Sample Pump	22-Mar-23		Install new bearings and hoses.
Wash Tank Flow Meter UPS	23-Mar-23		Install wash tank flow meter UPS.
Plant Garbage	23-Mar-23		Dispose of plant garbage and recycling.
Joshua Operate First Shift	23-Mar-23	23-Mar-23	Joshua operating first shift for Tyler.
Filter 11	23-Mar-23		Perform pressure test.
Dakota Supply Group	24-Mar-23		Purchase schedule 80 ¾I couplings, ¾' adapters, and Milwaukee grinder.
H.L. Balcony Light	24-Mar-23		Install new L.E.D light above H.L. balcony.
Meter/H.L Balcony	24-Mar-23		Sweep and mop floor.
Filter 6	27-Mar-23		Begin removing center grout and gasket sealant.
Front Gate	27-Mar-23		Repair gate
Dakota Supply Group	27-Mar-23		Purchase ¾I pressure reduction valve and order 4 bearings for sample pump repairs.
West Basin UVT%	27-Mar-23		Recalibrate unit
Gas Engine 3	27-Mar-23		Setup H.L. 3 to run on natural gas.
H.L. South Exhaust Fan	27-Mar-23		Diagnose and repair louver control arm issue.
Filter Backwash Actuator	27-Mar-23		Install new fuses.
Floor Scrubber	27-Mar-23		Remove drive button, lubricate, re-install, and check operation.
Filter 6 Leopold Port	28-Mar-23		Port fifteen 1 13/16 holes into Leopold bottoms.
Filter 6 Wash 1	28-Mar-23		Wash filter; 6.5 psi @ 60%.
Filter 6 Wash 2	28-Mar-23		Wash filter; 6.5 psi @ 60%.
Vac Truck	28-Mar-23		Empty vacuum housing, fill with gasoline, and add oil to engine.
Filter 6 Port Plug	28-Mar-23		Plug mid filter openings and 7 end ports; chambers looked to be clear of media.
Filter 6 Vacuum 4	28-Mar-23		Vacuum filter.
Filter 6 Vacuum 3	28-Mar-23		Vacuum filter.
Filter 6 Wash 3	28-Mar-23		Wash filter; 7.3 psi @ 62% with pump 1.
Leopold Matt Filter 6	29-Mar-23		Matt on site to assist in underdrain flushing.
Filter 6 Vacuum 5	29-Mar-23		Vacuum filter.
Flow Meter Wiring	29-Mar-23		Finish running flow meter wiring to box above meter.
Filter 6 Wash 5	29-Mar-23		Wash filter.
South Basin Bathroom	29-Mar-23		Clean toilet, scrub sink, and wash floor.
Tap Reagents	29-Mar-23		Fill SWAN hypo meter reagents.
Filter Hall	29-Mar-23		Sweep filter hall floor and organize work table by 6.
Josh 1st shift operating	30-Mar-23	30-Mar-23	Josh covered 1st shift operations
Filter #6 filter rehab	30-Mar-23		Filter #6 filter rehab
Filter #6 filter rehab	31-Mar-23		Filter #6 rehab work