January 2024

OPERATIONS' DEPARTMENT MONTHLY REPORT

		LIFT	LOW		2024 VS 2023
PUMPAGE	2023	2024	2023	2024	HL
Total in MG	350.916	336.917	361.303	348.611	-3.99%
Daily Average (MG)	11.320	10.885	11.655	11.246	
Max. Day (MG)	13.403	12.648	13.614	13.145	2024 VS 2022
Gal/KwH	1,201	1,237	4.941	4,872	HL -7.54%
Gairtwit	1,201	1,207	4,041	4,012	-7.0470
ELECTRICAL COSTS					
A. Pumping:	2023 KwH	\$	2 KwH	2024 \$	
High Lift	292,078	\$24,984.26	268,866	\$23,818.89	
Low Lift	73,129	\$6,255.43	71,103	\$6,299.01	
Wash Pump 1	3,500	\$299.39	3,500	\$310.07	
Occurrie Ot Dete	40.000	¢5 074 05	40.000	¢5 450 54	
Georgia St. Bstr. Wilgus Ave. Bstr.	48,300 3,000	\$5,271.05 \$425.75	48,000 3,300	\$5,153.54 \$480.33	
EE Pit / Bstr.	5,741	\$776.37	5,311	\$742.28	
Erie Ave. Bstr.	14,000	\$2,272.72	15,200	\$2,639.69	\$/KwH
Sub Total	439,748	\$40,284.97	415,280	\$39,443.81	3.7%
		•		-	
3. Treat./Fiscal/Misc. Office & Maint. Bldg.	KwH 5,674	\$ \$772.10	KwH 5,101	\$ \$722.21	
Filter Plant / Pump Station / 2nd Service	74,093	\$7,000.73	101,631	\$9,587.89	
					\$/KwH
Sub Total	79,767	\$7,772.83	106,732	\$10,310.10	-0.9%
C. Distribution:	KwH	\$	KwH	\$	
Taylor Hill Tank	3,042	\$422.87	3,387	\$482.84	
Horizon Tower			2,637	\$402.44	
EE Tower	1,400	\$206.14	1,353	\$206.92	
Washington (PRV) Pit	826	\$135.57	833	\$141.89	
Sub Total	5,268	\$764.58	8,210	\$1,234.09	\$/KwH
Total Electrical Costs	524,783	\$48,822.38	530,222	\$50,988.00	3.4%
Electrical Cost / MG	024,100	\$139.13	000,222	\$151.11	0.170
	2023			2024	
ATURAL GAS COSTS	CCF Used	Cost	CCF Used	Cost	
Production Facility	1,534	\$1,603.41	2,525	\$1,441.92	
South Basin	3,188	\$3,352.19	3,664	\$2,059.75	
Raw Pump Station		A 150 70	1,261	\$740.97	
Georgia St. Bstr. Erie Ave. Bstr.	419	\$456.78	070	¢045.07	
Wilgus Ave. Bstr.	48	\$66.94	376	\$245.67	
Office & Maint. Bldg.	1,464	\$1,555.36	1,367	\$793.09	\$/CCF
Total Natural Gas Costs	6,653	\$7,034.68	9,193	\$5,281.40	-45.7%
Natural Gas Cost / MG	0,000	\$20.05	3,130	\$15.65	-40.176
	-				
	2023			2024	
CHEMICAL COSTS	Lbs. Used	Cost	Lbs. Used	Cost	
Alum	59,955	\$12,080.93	60,698	\$12,837.63	5.0%
Carbon	0	\$0.00	0	\$0.00	#DIV/0!
Chlorine Fluoride	5,804 1,626	\$11,782.12 \$3,286.96	5,699 1,504	\$10,714.12 \$3,818.85	-7.4% 25.6%
KMnO4	1,020	\$3,200.90	1,504	\$3,616.65	25.6% #DIV/0!
Cationic Polymer	0	\$0.00	0	\$0.00	#DIV/0!
Liquid Phosphate	4,089	\$12,508.25	3,961	\$11,657.22	-3.8%
Total Chemical Costs	1,000	\$39,658.26	0,001	\$39,027.82	-1.6%
Chemical Cost / MG		\$113.01		\$115.66	-
		<u> </u>		\$05 207 22	0.000/
	Grand Total			\$95,297.22	-0.23%
	Grand Total Total Cost / MG	\$95,515.32 \$272.19		\$282.42	3,76%
	Grand Total Total Cost / MG	\$95,515.32 \$272.19		\$282.42	3.76%
YTD HL 2024 vs 2023 -3.84%		\$272.19	12.648	\$282.42 January 15, 2024	3.76%
YTD HL 2024 vs 2023 -3.84% YTD HL 2024 vs 2022 -7.39%	Total Cost / MG	\$272.19 Y PUMPAGE	12.648 8.349		
YTD HL 2024 vs 2022 -7.39%	Total Cost / MG	\$272.19 Y PUMPAGE		January 15, 2024 January 1, 2024	YTD HL Ave Da
	Total Cost / MG	\$272.19 Y PUMPAGE		January 15, 2024	3.76% YTD HL Ave Da 10.885 11.320

2022

11.754

COMPARATIVE SUMMARY OF PLANT OPERATIONS

			January 2023	vs	January 2024	-	
Pumping Record	High	n Lift			Low I	Lift	
ſ	2023	2024	Diff.	٦ ٢	2023	2024	Diff.
Tot. Water in MG	350.916	336.917	-3.99%	Tot. Water in MG	361.303	348.611	-3.51%
Daily Average	11.320	10.885	-3.84%	Daily Average	11.655	11.246	-3.51%
Maximum Day	13.403	12.648	-5.63%	Maximum Day	13.614	13.145	-3.44%
Minimum Day	9.294	8.349	-10.17%	Minimum Day	9.619	8.442	-12.24%
By Natural Gas	0.000	4.879	#DIV/0!	By Natural Gas	0.000	2.220	#DIV/0!
Power in KWH	292,078	268,866	-7.95%	Power in KWH	73,129	71,103	-2.77%
Gals. per KWH	1,201	1,237	2.99%	Gals. per KWH	4,941	4,872	-1.40%
Power \$ / KWH	\$0.08554	\$0.08859	3.57%	Power \$ / KWH			
Power \$ / MG	\$71.20	\$70.59	(\$0.61)	Power \$ / MG	\$17.31	\$18.07	\$0.76
Tot. Power \$/MG	\$140.22	\$169.78	\$29.56	Tot. Power \$/MG			
Treatment Chem.	Lbs.	Used				Cost	
Total Lbs.	2023	2024	Diff.	Total Cost	2023	2024	Diff.
Alum	59,955	60,698	1.24%	Alum	\$12,080.93	\$12,837.63	\$756.70
Carbon			#DIV/0!	Carbon	\$0.00	\$0.00	\$0.00
Chlorine	5,804	5,699	-1.81%	Chlorine	\$11,782.12	\$10,714.12	(\$1,068.00)
KMnO4	0	0	#DIV/0!	KMnO4	\$0.00	\$0.00	\$0.00
Polymer	0	0	#DIV/0!	Polymer	\$0.00	\$0.00	\$0.00
Liquid Phosphate	4,089	3,961	-3.13%	Liquid Phosphate	\$12,508.25	\$11,657.22	(\$851.03)
Lb/ MG:				Cost / MG:			
Alum	165.9	174.1	4.93%	Alum	\$33.44	\$36.83	\$3.39
Carbon	0.0	0.0	#DIV/0!	Carbon	#DIV/0!	#DIV/0!	#DIV/0!
Chlorine	16.1	16.3	1.77%	Chlorine	\$32.61	\$30.73	(\$1.88)
KMnO4	0.0	0.0	#DIV/0!	KMnO4	#DIV/0!	#DIV/0!	#DIV/0!
Liquid Phosphate	11.3	11.4	0.40%	Liquid Phosphate	\$34.62	\$33.44	(\$1.18)
Fluoride:	2023	2024	1	Fluoride:	2023	2024	1
Total Lbs.	1,626	1,504	-7.50%	Cost	\$3,286.96	\$3,818.85	\$531.89
mg/l applied as F	0.72	0.65		Cost/MG	\$9.38	\$11.33	\$1.95
Av. Res. Plt. Tap	0.71	0.70			·		-
Water Quality:	Ra	2.W/			TAI	D	
Γ	2023	2024	1	Г	2023	2024	1
Turbidity	7.90	9.20		Turbidity	0.039	0.037	1
pH	8.25	8.27		pH	7.60	7.58	1
Alkalinity	114.5	112.4		Alkalinity	104.6	101.3	1
MF (E-Coli)	1.1	1.0		Plate Count	0.00	0.00	1
Temperature	34.6	34.6		Colilert	0.00	0.00	1
Wash-H20 % /LL	2.40	2.45		Temp.	35.2	37.6	1
Av. Flt. Run/hrs	86.3	90.6		Cl Res.	0.89	0.90	1
Av. ROF / MG	1.39	1.46		0.1100.	0.00	0.00	J
			1				
Natural Gas:							
	2023	2024		_	2023	2024	Diff.
Nat. Gas Heating	4,660	5,464	Plant & South Basir		\$4,890.79	\$3,087.82	(\$1,802.97)
Nat. Gas Pumping	62	725		-	\$64.81	\$413.85	\$349.04
Г	CCF	Cost	Natural Gas Cost	Natural Gas CCF			
#3 Gas Pump	223.2	\$127.46	\$3,501.67				
#4 Gas Pump	207.0	\$118.21	ψ0,001.0/	0,100			
#4 Gas Fuilip	201.0	φ110.21	ŧ.				

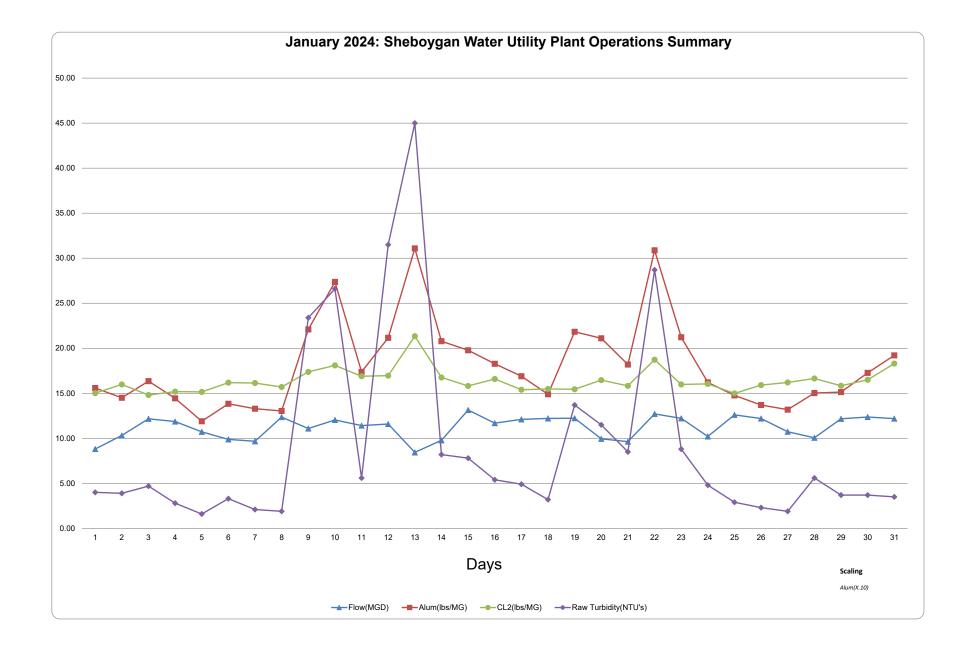
 #4 Gas Pump
 207.0
 \$118.21

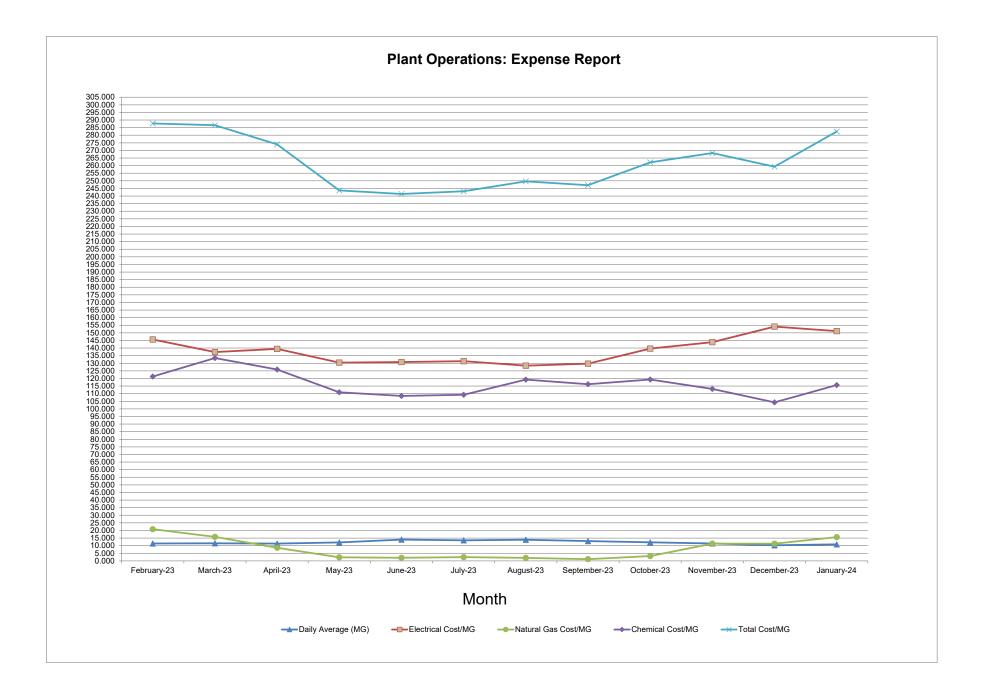
 #7 Gas Pump
 112.5
 \$64.24

 Electric Generator
 182.0
 \$103.93

 Pumping totals
 724.7
 \$413.85

		2/1/2024	1/1/2024				2/1/2024	1/1/2024	
% Run	Elapsed Time:				_		*		
34.0%	No. 6 Pump	76,165.2	75,912.5	252.7	SLUDGE No	. I Hour Meter	0.0	0.0	0
3.82%	Wash Pump Meter	5,952.30	5,923.89	28.41	SYSTEM No	. 2 Mag Meter	720,890	615,970	104,920
0.6%	No. 7 Pump	878.4	873.9	4.5	Rec	cycle Meter (Reset t	o zero each month))	104,920
1.9%	No. 8 Pump	59,554.4	59,540.3	14.1				L	
97.6%	No. 9 Pump	34,157.0	33,431.0	726.0	-				
0.0%	No. 11 Pump	,							
0.0%	No. 12 Pump								
0.0%	No. 13 Pump				-				
	· -								
0.0%	No. 14 Pump					** ******	[
0.9%	Wash Pump 2	191	184	7	Power Cost	\$0.0885902	Bill >>>>	\$41,141.29	
	No. 1 Prime Pump	1,059.2	1,057.3	1.9	-	5.755	KWH >>>	464,400	
	No. 2 Prime Pump	1,142.5	1,140.1	2.4	Init. Chg.	\$39,440.36		Low L. KWH	71,103
						\$	KWH	L.L. Cost \$	\$6,299.01
w/Hr run	Watthour Meters:				Low L. (1929)	\$6,299.01	71,103	High L. KWH	268,866
123.2	Wash Pump 1	1334.1	1329.1	3,500	Low L. (2024)	\$0.00	0	H.L. Cost \$	\$23,818.89
#DIV/0!	No. 14 Pump								
DIV/0!	No. 13 Pump								
DIV/0!	No. 12 Pump				1				
#DIV/0!	No. 11 Pump				Horizon	\$402.44	2,637		
69.5	No. 9 Pump	6396.44	6345.99	50,453	Taylor	\$482.84	3,387		
153.9	No. 8 Pump	6843.3	6837.1	2,170	ALT. 72 Park	\$575.50	100	Total Cost	\$30,117.90
73.1	No. 6 Pump	2851.2	2785.2	18,480	Geo. Ave.	\$5,153.54	48,000	Total Cost	φου, τττ.ος
128.2	Wash Pump 2	20.1157	19.3681	897	Wilgus Ave.	\$480.33	3,300		
536.6	No. 1 Pump	10076.96	10040.216	36,744	EE Pit	\$742.28	5,311	F	
DIV/0! 295.7	No. 2 Pump No. 3 Pump	5002.007 1372.593	5002.007 1232.92	0 139,673	EE Tower Washington	\$206.92 \$141.89	1,353 833	Plant Costs	\$9,587.8
295.7 #DIV/0!	No. 4 Pump	1372.393	1232.92	0	Office	\$722.21	5,101		
480.3	No. 5 Pump	13,107.170	13,014.721	92,449	Erie Ave.	\$2,639.69	15,200		
					Total	\$57,287.01	601,525		
	Garage (MWatt/Hrs.)	1,125.33	1,118.33	7,000	<u>_</u>				
	Power Co. (Step #3)	43,773	43,402	445,200	1				
	Left Meter - OUTSIDE	-, -	- / -	-,	-				
	Volume Used:				1				
Ν	Nat. Gas (Correct)	46,766,794	46,552,910	268,852	SUMMARY	HIGH LI	CT.	LOW LI	
						2023	2024	2023	2024
	Elapsed Time:				Tot. Pump	350.916	337.427	361.303	348.61
	Emer. Generator	1,172.0	1,162.9	9.1	Daily Ave.	11.320	10.885	11.655	11.24
V D	Elever d'Elever				Max. Day	13.403	12.648	13.614	13.14
6 Run 9.2%	Elapsed Time: No. 1 Pump	18,686.1	18,617.6	68.5	Min. Day By Nat. Gas	9.294	8.349 4.879	9.619 0.000	8.44
9.2% 0.0%	No. 1 Pump	21,331.56	21,331.56	0.00	Power KWH	292,078	268,866	73,129	2.22
63.5%	No. 3 Elec. Pump	4,685.4	4,213.0	472.4	Gals/KWH	1201	1237	4941	4872
1.0%	No. 3 Nat. Gas Pump	611.0	603.8	7.2	Cost/KWH	\$0.08554	\$0.08859	******	*****
0.0% 0.6%	No. 4 Elec. Pump No. 4 Nat. Gas Pump	0.00	0.00	0.0 4.6	Cost/MG Tot. Cost/MG	\$71.20 \$140.22	\$70.59 \$169.78	\$17.31	\$18.0
0.6% 25.9%	No. 4 Nat. Gas Pump No. 5. Pump	27,404.480	27,212.010	4.0		φ140.22	φ109.70		
0.7%	UV Building Generator	186.6	181.4	5.2	4				





January 2024

Filter Plant Maintenance Completed For January 2024

Subject

StartDate EndDate Description

Yellow indicates days operating or running labs

Utility observed new years1-Jan-24Tuesday Meeting2-Jan-24Topics include filter maintenance, coverage, raw water improvement project, Georgia pump 4, etc.Filter 3 Maintenance2-Jan-24Continue removing caps, chipping, and scraping gasket material; Wayne and crew.H.L. #2 switch gear2-Jan-24Trouble shooting high lift #2 switch gear, ordered new coin battery and will replace when they come inEE tower reset comms2-Jan-24Went to EE tower and reset comms, killed power and rebooted sysemBatteries plus and trillings2-Jan-24Checked batteries plus and trillings for #2 switch gear batteries, had to order through amazonFilter 3 Maintenance3-Jan-24Vacuum filter 3 concrete remnants and filter media.Filter 4 Maintenance3-Jan-24Continue removing caps, chipping, and scraping gasket material; Wayne and crew.Filter 4 Maintenance3-Jan-24Begin removing cap screws on north and south sides.	
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EE tower reset comms2-Jan-24Went to EE tower and reset comms, killed power and rebooted sysemBatteries plus and trillings2-Jan-24Checked batteries plus and trillings for #2 switch gear batteries, had to order through amazonFilter 3 Maintenance3-Jan-24Vacuum filter 3 concrete remnants and filter media.Filter 4 Maintenance3-Jan-24Continue removing caps, chipping, and scraping gasket material; Wayne and crew.Filter 4 Maintenance3-Jan-24Begin removing cap screws on north and south sides.	
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Filter Maintenance Inventory 4-Jan-24 Inventory all parts for filter maintenance on 3 and 4.	
Pump 6 4-Jan-24 Disassemble vacuum pot and repair to eliminate vacuum issue on raw water line.	
Filter 3 + 4 4-Jan-24 Assist Damian fabricating 2 surface wash pipe brackets out of aluminum.	
Low Lift Heating Cage 4-Jan-24 Grind, weld, and prime heater belt drive surround.	
Low Lift Heater 4-Jan-24 Disassemble heating unit for repair.	
Low Lift Heat 5-Jan-24 Install guard after spot weld and prime.	
Filter 3 5-Jan-24 Wash filter after cap removal; minor sand found southern chamber.	
Georgia Ave. 5-Jan-24 Install valve wheel adapters on pump 4.	
Georgia Ave. 5-Jan-24 Drop of tools and parts for pump 4 repair.	
Sodium Thio Barrel 8-Jan-24 Replace sodium thio barrel.	
Vacuum Pots on Pumps 9+6. 8-Jan-24 Clean vacuum pots on low lift pumps 9 and 6; East suction line has excessive air causing poor flow meter	reads.
Monday Meeting 8-Jan-24 Topics include filter 4 maintenance, Georgia Ave. pump 4, air in East suction line, coverage, and vacation	1.
New Permanganate Tank 8-Jan-24 Unload and check potassium permanganate tank.	
Filter 4 Vacuum 8-Jan-24 Assist crew vacuuming filter 4; Middle of north side has sand infiltration.	
Filter 4 Maintenance 8-Jan-24 Continue removing caps and chipping grout.	
Dan Covering Laboratory 9-Jan-24 10-Jan-24 Dan covering laboratory for Eric.	
UVT% Meter 9-Jan-24 Replace bulb, clean crystal, repair seal damage, and install new desiccant pack.	
Filter 3 Wash 9-Jan-24 Wash filter 3 for the second time after cap removal.	
Filter 4 Wash 9-Jan-24 Wash filter 4 after cap removal.	
Joshua Covering 2nd Shift 9-Jan-24 10-Jan-24 Joshua covering second shift for Glen.	
Changed light south basin 9-Jan-24 Replaced light in south basin	
Cleaned Hypo analyzers 9-Jan-24 Cleaned south/east/west Hypo analyzers	
H.L. Eductor 10-Jan-24 Remover and clean H.L. eductor; suspect it was plugged eliminating its ability to remove air from the 24	low lift line feeding 6+7.
Low Lift Air Leak 10-Jan-24 Troubleshoot air infiltrating the low lift suction line. We suspect the H.L. venturi is plugged.	
Raw Water Air Relief 10-Jan-24 Clean out the raw water air relief in the UV room.	
Horizon X2 10-Jan-24 Reset radio comms. and PLC after SCADA service.	
Dan on vacation 11-Jan-24 12-Jan-24 Dan on vacation	
Joshua Covering Laboratory 11-Jan-24 12-Jan-24 Joshua covered the laboratory for Eric.	
Rapid Mix Furnace 11-Jan-24 Repair heater inop caused by disconnected limit switch.	
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Georgia Pump 4	18-Jan-24		Continue tearing down impetaoruand 2024 ings.
Dan operating 1st shift	18-Jan-24	19-Jan-24	Dan Covering 1st shift operations
Trouble shoot back wash basin	19-Jan-24		Trouble shooting back wash basin valves not working with SCADA
Removed plant garbage	19-Jan-24		Removed plant garbage
Plant snow removal	19-Jan-24		Removed snow from around back wash basin and steps
Snow Removal	19-Jan-24		Remove snow from sidewalks and back basin area.
Georgia Pump 4	19-Jan-24		Contact Shawn at Mesco about upgraded bearings and seals for pump ends.
Georgia Pump 4	19-Jan-24		Scale, degrease, and wire wheel all applicable components.
Changed HYPO hoses	19-Jan-24		Changed HYPO hoses on east/west/south hypo feed pumps
Monday Morning Meeting	22-Jan-24		Topics include check valve status (Feb. 16th), intake, Georgia comms, SCADA computers, Georgia pump 4, coverage, etc.
L.L. Bathroom	22-Jan-24		Clean toilet, urinal, shower, and floor.
Filter 4	22-Jan-24		Vacuum and wash.
Menards	22-Jan-24		Purchase dish soap, flints, power strips, etc.
Filter 3	22-Jan-24		Vacuum filter media.
Filter 4	22-Jan-24		Plug primary openings, drill out 8 secondary openings, and wash.
Kohler Reserviour	22-Jan-24		Reset SCADA communications.
Checked plant Feed pumps	22-Jan-24		Maintenance check on plant chemical feed pumps
Maintenance checks Heaters	22-Jan-24		Maintenance checks on plant heaters.
Trillings hardware	22-Jan-24		Trillings hardware for striker flints
Thermostat insulation box	23-Jan-24		Installed insulation box behind thermostat on heater by No#1 filter
sodium thio barrels	23-Jan-24		Placed sodium thio barrels in chemical feed room.
Wash line brackets	23-Jan-24		Installed new wash line brackets for filter #3 and #4
Josh on main break with crew	23-Jan-24		Josh went on main break with crew on Saemann Ave
Vacuumed filters 3 & 4	23-Jan-24		Glen vacummed sand from filter under-drain system on filters #3 and #4
Filter 3	23-Jan-24		Wash filter.
Engraved Milwaukee batteries	23-Jan-24		Engraved filter plant maintenance shop Milwaukee tool batteries
Milwaukee Batteries	23-Jan-24		Clean, label, charge, and organize; 19 M18 + 4 M12.
Filter 4	24-Jan-24		Vacuum filter media.
Trilling's	24-Jan-24		Purchase striker flint.
Dakota Supply Group	24-Jan-24		Purchase screw driver set and order 21 annular bit.
Back to summer OPS	24-Jan-24		Closed bypass to suction well and put plant back in summer OPS
Front Gate	24-Jan-24		Reset unit and check operation = okay at this time.
Filter 4	24-Jan-24		Wash and check media remains.
Filter 4	24-Jan-24		Drill hole in South/East section and wash.
Reservoir checks	24-Jan-24		Checked reservoirs and filled reagents at Wilgus, Erie, Taylor Hill, Georgia
Laboratory and Operations Floor	25-Jan-24		Sweep and mop laboratory and operations floors.
Filter 4	25-Jan-24		Wash filter and check media intrusion.
Filter 4	25-Jan-24		Plug 2 primary holes and drill 4 secondary holes South East section.
Dan Operating 1st	25-Jan-24	26-Jan-24	Dan covering first shift for Glen.
Joshua Covering 2nd Shift	26-Jan-24	29-Jan-24	Joshu covering 2nd shift for Jeff.
Dan 1st shift for Tyler	26-Jan-24	27-Jan-24	Dan covering 1st shift operations for Tyler
Dan covering Lab	26-Jan-24	27-Jan-24	Dan covering lab ops
Joshua off for Coverage	29-Jan-24	30-Jan-24	Joshua off for covering 2nd shift
Georgia reservoir	29-Jan-24	50 Juli 24	Replaced HYPO reagents at Georgia pump station
Horizon tower	29-Jan-24		Checked reagents and tower at Horizon
South basin Flocs	29-Jan-24		Greased south basin flocs
East HYPO analyzers	29-Jan-24		Filled reagents on East basin Hypo analyzer
Monday Ops meeting	29-Jan-24		Monday operations update meeting
light bulb replacement	30-Jan-24		Replaced light bulbs in pipe gallery by filter #1 and filter #3
T-8 bulbs pipe gallery	30-Jan-24		Replaced light bulbs by filter #2
Replaced light fixture	30-Jan-24 30-Jan-24	+	Replaced 1-8 light bubs by filter #2 Replaced seal tight light fixture by west basin floc drives in pipe gallery
	30-Jan-24 31-Jan-24		Replaced seal light light light light light light light by west basin noc drives in pipe gallery Remove plant garbage.
Trash Out			
Pump 4 Assembly	31-Jan-24		Press end bearings into housing and test fit components.
Georgia Ave.	31-Jan-24	-	Drop off pump 4 impellor, parts, and tools.
Georgia Ave.	31-Jan-24		Begin cleaning pump housing.