Monthly Operating Report

January:2025

So. Sangamon Water Commission

February 18th, 2025

SSWC

9199 Buckhart Rd Rochester IL 62563

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EXECUTIVE SUMMARY

Safety. Safety is the number one priority at South Sangamon. We have instituted a monthly safety meeting for operations staff at the plant. There were no lost time accidents in the month of January 2025.

Compliance. The finished water quality was within regulatory limits and all reporting and sampling requirements were met for the month. A copy of the Operations Report submitted to the Illinois Environmental Protection Agency is available at **www.sswc.us**

During the month of January 2025, the plant pumped 42.645 million gallons from the well field and 37.997 million gallons of finished water. This is .556 million gallons less than January 2024.

The SSWC plant has been removed from Critical Review status.

Operations. There was 1 emergency call-outs for the month. There were numerous customer inquiry for the month.

Maintenance and Repair. For the month of January 2025, there were 31 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 4 repair activities performed.

Budget. Passed at May 20th 2024 meeting.

Capital Planning.

Chatham emergency interconnect

Onsite fuel storage tanks

Detention Tank

Well#11

1. SAFETY

1.1 SAFETY TRAINING

At South Sangamon we strive to provide a safe working environment for all employees. This is accomplished with daily safety meetings and open communication.

1.2 LOST TIME ACCIDENTS

There were 0 lost time accidents in the month of January 2025.

1.3 SAFETY AUDIT

No safety audits to date.

1.4 MISCELLANEOUS SAFETY

No notable safety issues

2. COMPLIANCE, FLOWS AND LOADINGS

2.1 COMPLIANCE

The finished water quality was within regulatory limits and all Bacteriological testing was completed for the month of January. A copy of the Operations Report to the Illinois Environmental Protection Agency (IEPA) is available on the SSWC website.

2.2 INFLUENT FLOWS AND LOADINGS

The total gallons pumped from the well field were 42.645 MG. The influent parameters were all within the normal range.

The influent flow and loadings are summarized below in Table 2.2

Table 2.2 Influent Concentrations and Flow

	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Well Flow Gals (MGD).
Max.	7.53	14.6	3.62	.341	-	400	310	1.619
Min.	7.30	13.1	.30	.117	-	352	250	.0.955
Avg.	7.40	13.7	.81	.201	-	373	296	1.376
Total	-	-	-	-	-	-	-	42.645

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 37.997 MG during the month with a daily average of 1.226 MG and a min/max .858/ 1.460 MG.

Table 2.3 Finished Water Quality

	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	1.02	3.88	7.9		0.03	0.300	1.13	400	320	2.82
Min.	0.05	1.08	7.6		0.01	0.016	0.41	100	273	0.88
Avg.	0.13	3.28	7.8		0.01	0.066	0.75	324	292	1.95
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2024

Time Period	2024-25	2023-24	2022-23
Feb 2024-Jan 2025	414,494,294	421,469,532	415,813,951
Increase for the same period last year		-6.98 MG	5.66 MG

FINISHED WATER PUMPING HISTORY

	2024-25	2023 -24	2022-23	2021-22	2020-21	2019-20
Feb	29,777,768	33,481,076	32,451,653	30,638,842	28,797,693	28,625,431
Mar	31,222,925	36,781,261	33,909,417	33,633,244	30,339,298	31,237,000
Apr	31,707,537	36,832,617	31,991,050	33,214,211	31,542,650	28,418,249
May	36,629,959	43,484,155	37,459,417	35,932,776	34,673,848	33,045,927
June	40,285,085	22,455,176	38,496,145	37,616,256	17,414,377	33,460,303
July	38,944,142	41,565,811	38,861,790	39,001,640	44,237,066	23,742,374
Aug	38,576,284	39,770,720	36,977,913	39,953,900	39,638,063	25,018,633
Sept	37,258,390	38,677,420	32,355,302	38,935,839	38,674,095	34,234,782
Oct	34,907,003	32,733,224	29,576,287	34,918,955	34,597,739	30,769,238
Nov	28,768,567	30,061,570	35,563,717	31,181,005	32,325,040	30,877,400
Dec	32,675,158	31,818,986	30,450,255	31,391,459	31,582,311	29,703,954
Jan	33,741,476	33,807,516	37,721,005	32,322,270	31,456,987	30,073,516
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Totals	414,494,294	421,469,532	415,813,951	418,740,397	395,279,167	359,206,807
Avg	1.13 MGD	1.16 MGD	1.14 MGD	1.15 MGD	1.08 MGD	.984 MGD

2.4 LAGOON DISCHARGE CONCENTRATIONS

The results for the NPDES lagoon discharge permit are summarized below.

Table 2.4 Weekly Grab Sample Analysis Results

Lagoon Effluent Results						
Date	**Fe (mg/l)**	**Mn (mg/l)**	**Chloride (mg/l)**	**Cl^2 (mg/l)**	**pH (S.U.)**	**TSS (mg/l)**
Jan 27th, 2025						
Minimum	.62	.83	203.7	.01	7.8	<4
Maximum	.62	.83	203.7	.01	7.8	<4
Average	.62	.83	203.7	.01	7.8	<4
Monthly Avg Limit	***2.000***	***1.000***				***15***
Daily Limit	***4.000***	***2.000***	***500***	***0.05***	***6.0-9.0***	***30***

The Chloride sample for the month, performed by the Springfield Metropolitan Sanitary District, was below 30,000 mg/l for the month of January 2025. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

There were over 50 incident that impacted the operation of the plant.

Ion exchange alarm

Power surge

Power Sag

Ion Exchange Brine Pump

Well check valves

Brine Pumps

Permanganate Pumps

Air Scour Repair

3.2 EMERGENCY & SERVICE CALLS

Service Calls:

- There was 0 emergency call out for the month.

3.3 EMERGENCY CALL-OUTS

There was 1 emergency call out for the month.

3.4 CUSTOMER INQUIRIE

There were numerous customer inquiries.

OTHER WORK PERFORMED

Inspected distribution mains
Inspected booster station
Customer service
SCADA programming
Mower Maintenance
Interconnect Start Up
Well #11 construction
Brine Pump Replacement
Permanganate Pump Replacement
Air Manifold Repair
Ball Chatham School Radio Removal

The air scour on train #1 came apart and had to be repaired.

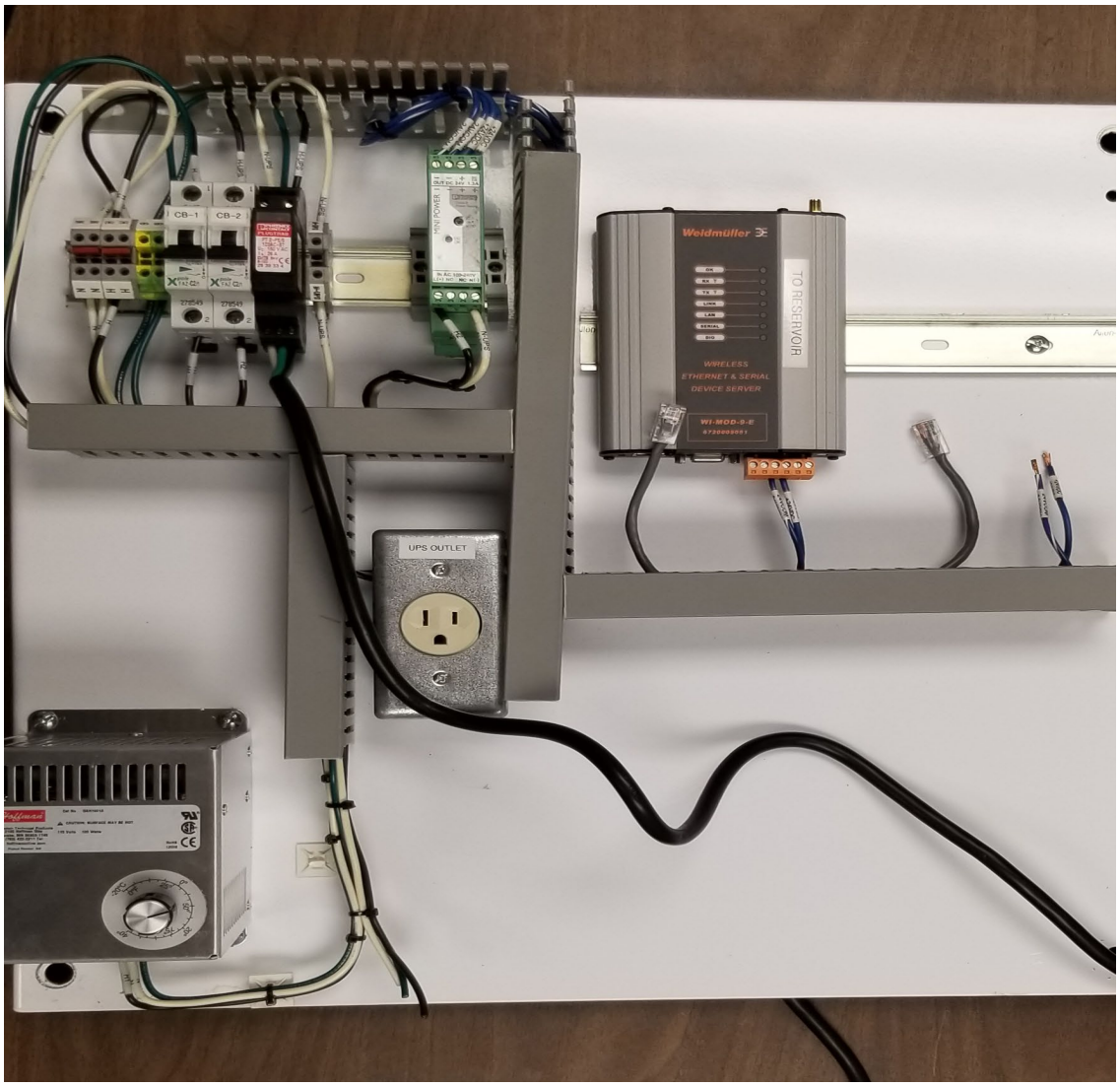
We attempted to purchase replacement pieces to affect a repair but have not been unable to do so. The staff at the plant has been able to manufacture replacement manifolds so that the train can be air scoured and have PDTs performed. These manifolds do the job but are not ideal. As soon as OEM parts can be sourced we will replace them.

The Manganese started to climb so we inspected the Sodium Permanganate feed system. It was found that the feed pump had failed and needed to be replaced. There are 2 feed pumps.

A new Sodium Permanganate has been installed. A newer, better design, less expensive feed pump has been installed. Another redundant feed pump is in the works, but has not been installed yet.

The brine system for regen portion of the softening system quit filling the softeners with brine. It was found, after much testing, that the brine pumps had failed. One pump had a failed motor and one pump had a failed pump. Although both pumps were technically the same pump, they were not. Staff attempted scavenge parts from the 2 pumps to make 1 but were unable to do so.

After many phone calls 2 new brine were able to be sourced and installed.



Staff went out to the Ball-Chatham school and retrieved a couple of radios that South Sangamon had on site. We no longer use these radios for communications with the Chatham ground storage tanks. We will be using them for well #11 which will save us from having to purchasing a radio.

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of January 2025, there were 31 inspections, 3 preventative and multiple corrective maintenance activities completed.

4.2 CORRECTIVE REPAIR AND MAINTENANCE

Pulling and cleaning pre filters on all 3 filter trains on weekly basis

CIP train 1,2 and 3

Purged air control system

Raw water line flushing

Detention tank flush

Flushing Air Lines

Maintenance of New Berlin Booster Station

Meter Transmitter Replacement

Air compressor Maintenance

Pneumatic Tank Maintenance

Well Maintenance

Train #1 Repair

Brine Pump replacement

Sodium Permanganate Pump replacement.

5. PROJECT MANAGEMENT & SUPPORT

5.1 STAFFING & TRAINING

- Staff member training has been continuous and ongoing.
- Operator and Asst. Operator have been studying for EPA licensing test.

5.2 OPERATIONAL SUPPORT

The following individuals, either on-site or remotely, provided assistance in operation and/or maintenance of the plant during the month of January 2025.

- Kevin Canham
- Stephen Bivin
- Katie Krall
- Dan (SCADAware)
- Joe Lee Electric
- Kevin Garmin (SCADAware)
- Brotke Well and Pump

5.3 BUDGET

Table 5.3 Operating Budget

Table 5.3 Budget Table

Budget Table was removed: see clerks report

6. CAPITAL PLANNING

6.1 APPROVED CIP PROJECTS CURRENT STATUS

Pigging project construction complete. Awaiting first pigging before completely releasing contractor.

The Chatham /South Sangamon emergency interconnect construction is complete. After many failed attempts; start has been completed.

Meter Project progressing, All meter bases and registers are on site. all cell meters have been installed.

Well #11 platform has been installed. Pits, bypass piping and hydrant are installed. Excavating the raw water main has been completed and the well connection to the raw water main has been done. Thrust blocks are to be poured in the near future

Joe Lee Electric and Dan from scadaWARE have been onsite site to inspect and plan their portion of the well #11 construction.

6.2 DRAFT CAPITAL IMPROVEMENT PLAN

The CIP is a planning document that includes all projects anticipated to exceed $5,000 in cost over the next five years. The CIP is an ongoing process and will be refined from time to time as projects are completed and new issues are identified.

1. Onsite fuel storage tanks have arrived on site and pumps have been installed-completed
2. BOP CPU upgrade-completed
3. Second raw water detention tank
4. SSWC/Chatham interconnect-completed
5. Well #11-underway
6. SCADA computer upgrade-90% complete

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

South Sangamon Water Commission - IL1670080

January 2025

Physical and Chemical Tests

	Raw						Pre UF Membrane				Post UF Membrane			Post IEX				Finished														Membrane Integrity		
																																Post Filter		
			Total	Total	Total	Total																											
Date	pH	Temp	Alk.	Hard.	Fe	Mn	Turbidity	Total Fe	Total Mn	Soluble Mn	Total Fe	Total Mn	Turbidity	1	2	3	4	pH	Turbidity	Total Alk.	Total Hard.	Total Fe	Total Mn	Fluoride F	Ortho Phosphate	Free Ammonia	Mono-Chloramine	Chlorine F	Chlorine T	Distribution				
		deg. C	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	Chloride mg/L	Chloride mg/L	Chloride mg/L	Chloride mg/L		NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/l	mg/l	mg/l	mg/L	F mg/l	T mg/L	Bank 1	Bank 2	Bank 3
			as CaCO3																	as CaCO3											psi	psi	psi
1	7.40	13.7	310	352	0.91	0.216			0.241	0.151	0.01	0.151	0.24					7.80	0.23	294	116	0.01	0.094	0.84	1.69	0.02	3.11	0.09	3.21					
2	7.40	13.6	306	360	0.80	0.209			0.216	0.091	0.01	0.101	0.22					7.80	0.21	300	110	0.01	0.084	0.79	1.71	0.04	3.22	0.08	3.01					
3	7.40	13.8	310	360	0.88	0.210			0.220	0.088	0.01	0.092	0.25					7.80	0.22	300	110	0.01	0.076	0.80	1.81	0.01	3.19	0.10	2.98					
4	7.40	13.4	300	365	0.70	0.174			0.189	0.076	0.01	0.080	0.27					7.80	0.25	300	100	0.01	0.080	0.76	1.74	0.03	3.20	0.10	3.16					
5	7.38	14.5	250	370	0.97	0.117			0.306	0.103	0.09	0.122	0.12					7.72	0.44	290	360	0.03	0.097	0.66	2.26	0.00	3.38	0.15	3.39					
6	7.53	13.9	290	390	0.66	0.181			0.168	0.155	0.02	0.154	0.21					7.82	0.17	270	360	0.01	0.130	1.00	2.18	0.02	3.53	0.09	3.29					
7	7.40	13.8	300	400	0.62	0.306			0.416	0.467	0.01	0.539	0.25					7.80	0.23	300	350	0.01	0.141	0.60	1.75	0.01	3.25	0.07	3.52					
8	7.40	13.7	300	370	0.35	0.176			0.133	0.103	0.37	0.123	0.28					7.80	0.25	300	320	0.01	0.112	0.64	1.49	0.01	0.34	0.08	2.88					
9	7.40	13.8	300	360	0.44	0.154			0.187	0.130	0.01	0.117	0.27					7.80	0.21	300	280	0.01	0.122	0.62	2.12	0.04	3.13	0.08	3.42			pass	pass	pass
10	7.50	14.1	300	370	0.69	0.154			0.344	0.051	0.01	0.079	0.29					7.80	0.20	300	400	0.01	0.059	0.97	1.83	0.01	3.08	0.19	3.36					
11	7.50	13.8	292	378	0.61	0.204			0.299	0.106	0.01	0.119	0.19					7.80	0.19	286	380	0.01	0.081	0.74	1.91	0.02	3.11	0.08	3.24					
12	7.50	13.6	292	382	0.70	0.159			0.206	0.101	0.01	0.124	0.20					7.80	0.20	290	360	0.01	0.050	0.79	1.84	0.02	2.96	0.06	3.04					
13	7.40	13.7	300	370	0.36	0.153			0.285	0.025	0.01	0.047	0.27					7.80	0.25	300	390	0.01	0.047	0.44	1.88	0.01	0.81	0.05	1.08					
14	7.40	13.4	300	360	0.43	0.161			0.317	0.053	0.01	0.066	0.29					7.80	0.23	300	360	0.01	0.041	0.88	2.18	0.05	3.16	0.07	3.02					
15	7.40	13.4	300	390	0.30	0.170			0.289	0.034	0.01	0.044	0.25					7.80	0.20	280	360	0.01	0.038	0.78	1.50	0.03	3.14	0.08	3.68					
16	7.40	13.6	280	390	1.80	0.240			0.315	0.042	0.01	0.038	0.25					7.80	0.22	280	340	0.01	0.029	0.59	2.08	0.05	3.12	0.12	3.48					
17	7.40	13.8	300	370	3.62	0.341			0.362	0.035	0.01	0.042	0.28					7.80	0.24	280	340	0.01	0.033	0.79	2.09	0.04	3.35	0.09	3.68					
18	7.40	13.8	300	390	1.90	0.320			0.350	0.041	0.01	0.038	0.30					7.80	0.26	280	360	0.01	0.029	0.77	2.11	0.03	3.10	0.08	3.52					
19	7.40	13.4	300	375	0.86	0.298			0.270	0.038	0.01	0.040	0.28					7.80	0.24	280	340	0.01	0.034	0.80	1.94	0.03	3.14	0.09	3.50					
20	7.30	13.2	292	352	0.98	0.316			0.341	0.039	0.01	0.041	0.24					7.80	0.22	280	340	0.01	0.300	0.81	2.04	0.02	3.08	0.07	3.22					
21	7.40	13.8	280	360	0.85	0.186			0.396	0.032	0.01	0.037	0.25					7.70	0.24	280	350	0.01	0.039	0.88	2.37	0.03	3.90	0.09	3.88					
22	7.40	13.7	290	360	0.76	0.188			0.320	0.036	0.01	0.040	0.27					7.80	0.24	280	340	0.01	0.032	0.85	2.01	0.02	3.86	0.07	3.60					
23	7.40	13.7	300	370	0.51	0.176			0.374	0.038	0.01	0.041	0.23					7.80	0.22	300	360	0.01	0.057	0.65	2.04	0.01	3.33	0.09	3.82					
24	7.40	13.5	300	380	0.41	0.174			0.319	0.059	0.01	0.042	0.22					7.90	0.25	300	390	0.01	0.038	0.47	2.82	0.01	3.81	0.10	3.68			pass	pass	pass
25	7.30	13.3	296	374	0.71	0.181			0.336	0.037	0.01	0.044	0.21					7.80	0.22	292	360	0.01	0.040	0.69	2.14	0.02	3.39	0.07	3.41					
26	7.40	13.4	300	382	0.66	0.179			0.369	0.041	0.01	0.039	0.23					7.80	0.24	288	350	0.01	0.044	0.74	2.09	0.01	3.71	0.07	3.24					
27	7.40	13.1	290	380	0.60	0.191			0.245	0.028	0.01	0.029	0.28					7.70	0.28	290	360	0.01	0.016	1.13	1.91	0.01	3.77	0.08	3.50					
28	7.40	13.4	300	380	0.53	0.186			0.272	0.032	0.01	0.028	0.24					7.70	0.29	300	360	0.01	0.020	0.93	1.89	0.01	3.62	0.08	3.34					
29	7.40	14.1	300	370	0.38	0.163			0.283	0.026	0.01	0.033	0.25					7.60	0.27	300	350	0.01	0.040	0.41	0.88	0.01	2.86	0.24	2.24					
30	7.30	14.2	310	380	0.74	0.177			0.360	0.024	0.01	0.041	0.27					7.70	0.26	320	380	0.01	0.027	0.52	1.99	0.01	2.87	1.02	3.54					
31	7.30	14.1	300	380	0.51	0.169			0.336	0.035	0.01	0.053	0.25					7.60	0.29	300	380	0.01	0.031	0.91	2.11	0.01	3.27	0.34	3.66					
Ave.	7.40	13.7	296	373	0.81	0.201	#DIV/0!	#DIV/0!	0.292	0.075	0.02	0.083	0.25	#####	#####	#####	#####	7.78	0.24	292	324	0.01	0.066	0.75	1.95	0.02	3.12	0.13	3.28	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Max	7.53	14.5	310	400	3.62	0.341	0.00	0.00	0.416	0.467	0.37	0.539	0.30	0	0	0	0	7.90	0.44	320	400	0.03	0.300	1.13	2.82	0.05	3.90	1.02	3.88	0.00	0.00	0.00	0.00	0.00
Min	7.30	13.1	250	352	0.30	0.117	0.00	0.00	0.133	0.024	0.01	0.028	0.12	0	0	0	0	7.60	0.17	270	100	0.01	0.016	0.41	0.88	0.00	0.34	0.05	1.08	0.00	0.00	0.00	0.00	0.00

Lagoon Effluent Tests		pH	Temp	T Chlor	Mn	Fe	Chloiride	TSS
Monthly			°C	mg/l	mg/l	mg/l	mg/L	mg/L
Date	1/27/2025	7.8	15.7	0.01	0.83	0.62	203.7	<4

Distribution Stability Tests		pH	Temp	TDS	Alkalinity	Calcium	Chloiride	Sulfate	Remarks:
Every Two Weeks			°C	mg/L	mg/L as CaCO3		mg/L	mg/L	
Date	1/27/2025	7.78	15.1	410	280		32	56	
Date									
Date									

South Sangamon Water Commission

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY — **MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT**

DIVISION OF PUBLIC WATER SUPPLIES

South Sangamon Water Commission - IL 1670080

January 2025

		Pumping Totals						Chemicals Applied														UF Filters					Softeners							
								Sodium Permanganate		Sodium Bisulfite BW		Sodium Hypochlorite		Ammonium Sulfate		Fluorosilicic Acid		Phosphate		Sodium Bisulfite Pond		Hours since previous backwash										Regeneration	
	Time	Hours	Raw Well	UF	Plant	HS	Lagoon Effluent	Am't		Am't		Am't		Am't		Am't		Am't		Am't						Wash Water	Water Softened	Water Bypassed	Each day indicate total number of hours since previous regeneration.				Salt	Washed
Date	Meter	Filter	Prod.	Filtered	Water	Pumpage	Pumpage	Used	Calc	Used	Calc	Used	Calc	Used	Calc	Used	Calc	Used	Calc	Used	Calc													
	Read	Ran	(Mgal)	(Mgal)	(Mgal)	(Mgal)	(Mgal)	lbs.	mg/l as NaMnO4	lbs.	mg/l	lbs.	mg/l as Cl	lbs.	mg/l as NH3	lbs.	mg/l as F	lbs.	mg/l as PO4	lbs.	mg/l	Bank # 1	Bank # 2	Bank # 3		Gal. (Mgal)	Gal. (Mgal)	Gal (Mgal)	If regeneration at mid-day, indicate hours previous/hours following. 1	2	3	4	lbs.	Gal.
1	7:00	17.9	1.374	1.227	0.014	1.153	0.057	0	0.00	0	0.00	320	3.91	12	0.23	28	0.55	6	0.21	0	0.00	0.66	0.66	0.66		0.052	0.000	1.227				42.0	2281	10850
2	7:00	12.7	0.955	0.858	0.005	0.807	0.046	0	0.00	0	0.00	358	6.25	14	0.39	32	0.90	8	0.39	0	0.00	0.66	0.66	0.66		0.032	0.000	0.858	37.0	37.0	39.0		6843	32550
3	7:00	21.8	1.619	1.448	0.019	1.366	0.069	0	0.00	0	0.00	308	3.19	15	0.25	28	0.47	9	0.26	0	0.00	0.66	0.66	0.66		0.055	0.000	1.448	38.0	36.0		34.0	6843	32550
4	7:00	13.6	1.031	0.905	0.010	0.898	0.043	0	0.00	0	0.00	350	5.80	16	0.42	31	0.79	11	0.48	0	0.00	0.66	0.66	0.66		0.033	0.000	0.905			38.0	36.0	4562	21700
5	7:00	19.4	1.474	1.314	0.009	1.221	0.059	0	0.00	0	0.00	334	3.81	11	0.20	29	0.54	10	0.32	0	0.00	0.66	0.66	0.66		0.049	0.000	1.314	32.0		36.0		4562	21700
6	7:00	17.2	1.282	1.146	0.017	1.048	0.058	0	0.00	0	0.00	404	5.28	17	0.36	36	0.78	27	1.02	0	0.00	0.66	0.66	0.66		0.044	0.000	1.146	34.0	67.0		33.0	6843	32550
7	7:00	18.1	1.356	1.419	0.001	1.106	0.066	0	0.00	0	0.00	342	3.61	15	0.25	32	0.66	68	2.43	0	0.00	0.66	0.66	0.66		0.056	0.000	1.419			40.0	35.0	4562	21700
8	7:00	21.6	1.616	1.247	0.000	1.368	0.054	0	0.00	0	0.00	262	3.15	12	0.23	22	0.37	2	0.06	0	0.00	0.66	0.66	0.66		0.049	0.000	1.247		45.0			2281	10850
9	7:00	13.3	0.977	0.872	0.001	0.800	0.034	0	0.00	0	0.00	368	6.33	15	0.41	34	0.97	6	0.30	0	0.00	0.66	0.66	0.66		0.034	0.000	0.872					0	0
10	7:00	21.0	1.564	1.382	0.010	1.340	0.069	41	0.63	0	0.00	274	2.97	8	0.14	25	0.43	5	0.15	0	0.00	0.66	0.66	0.66		0.055	0.000	1.382	93.0		85.0	77.0	9843	32550
11	7:00	15.3	1.145	1.028	0.013	1.038	0.047	20	0.42	0	0.00	290	4.23	11	0.26	26	0.57	6	0.23	0	0.00	0.66	0.66	0.66		0.042	0.000	1.028	35.0				2281	10850
12	7:00	16.0	1.189	1.071	0.009	0.970	0.055	23	0.46	0	0.00	360	5.04	15	0.34	32	0.75	9	0.37	0	0.00	0.66	0.66	0.66		0.041	0.000	1.071		82.0	39.0	33.0	6843	32550
13	7:00	19.7	1.482	1.315	0.009	1.234	0.072	26	0.42	0	0.00	398	4.54	19	0.35	35	0.65	11	0.35	0	0.00	0.66	0.66	0.66		0.053	0.000	1.315	32.0	40.0	33.0	36.0	9124	43400
14	7:00	18.0	1.331	1.202	0.019	1.119	0.046	13	0.23	0	0.00	324	4.04	15	0.30	29	0.59	10	0.35	0	0.00	0.66	0.66	0.66		0.046	0.000	1.202					0	0
15	7:00	18.9	1.387	1.246	0.004	1.085	0.073	29	0.50	0	0.00	348	4.19	18	0.35	31	0.65	12	0.44	0	0.00	0.66	0.66	0.66		0.054	0.000	1.246	40.0	35.0	38.0	34.0	9124	43400
16	7:00	17.1	1.242	1.101	0.014	1.083	0.056	20	0.39	0	0.00	328	4.47	16	0.35	30	0.63	40	1.46	0	0.00	0.66	0.66	0.66		0.037	0.000	1.101	39.0	37.0	32.0	33.0	9124	43400
17	7:00	19.0	1.421	1.268	0.018	1.158	0.056	21	0.35	0	0.00	342	4.04	17	0.32	29	0.57	67	2.29	0	0.00	0.66	0.66	0.66		0.056	0.000	1.268					0	0
18	7:00	17.6	1.289	1.151	0.003	1.136	0.063	20	0.37	0	0.00	332	4.32	15	0.31	29	0.58	6	0.21	0	0.00	0.66	0.66	0.66		0.044	0.000	1.151	47.0	35.0	41.0	37.0	9124	43400
19	7:00	15.6	1.169	1.041	0.015	0.968	0.063	21	0.43	0	0.00	362	5.21	24	0.55	34	0.80	6	0.25	0	0.00	0.66	0.66	0.66		0.044	0.000	1.041	29.0	36.0	31.0	35.0	9124	43400
20	7:00	20.2	1.562	1.417	0.018	1.243	0.063	21	0.32	0	0.00	364	3.85	20	0.34	32	0.59	6	0.19	0	0.00	0.66	0.66	0.66		0.053	0.000	1.417		25.0		29.0	4562	21700
21	7:00	20.7	1.557	1.374	0.005	1.274	0.067	27	0.42	0	0.00	476	5.19	26	0.45	40	0.72	8	0.25	0	0.00	0.66	0.66	0.66		0.057	0.000	1.374	36.0		29.0		4562	21700
22	7:00	21.3	1.555	1.377	0.000	1.310	0.057	18	0.28	0	0.00	304	3.31	16	0.28	26	0.45	5	0.15	0	0.00	0.66	0.66	0.66		0.057	0.000	1.377					0	0
23	7:00	17.0	1.245	1.072	0.000	1.105	0.042	22	0.42	0	0.00	382	5.34	18	0.40	35	0.72	10	0.36	0	0.00	0.66	0.66	0.66		0.042	0.000	1.072					0	0
24	7:00	20.8	1.540	1.366	0.000	1.254	0.057	22	0.34	0	0.00	400	4.39	19	0.33	35	0.64	10	0.32	0	0.00	0.66	0.66	0.66		0.057	0.000	1.366					0	0
25	7:00	22.0	1.605	1.460	0.000	1.368	0.053	21	0.31	0	0.00	352	3.61	15	0.25	29	0.48	10	0.29	0	0.00	0.66	0.66	0.66		0.053	0.000	1.460					0	0
26	7:00	17.0	1.279	1.123	0.000	1.052	0.060	18	0.34	0	0.00	354	4.72	15	0.32	33	0.71	11	0.41	0	0.00	0.66	0.66	0.66		0.050	0.000	1.123	134.0			137.0	4562	21700
27	7:00	21.4	1.589	1.447	0.000	1.315	0.065	22	0.33	0	0.00	398	4.12	17	0.28	33	0.57	26	0.78	0	0.00	0.66	0.66	0.66		0.060	0.000	1.447				35.0	2281	10850
28	7:00	21.2	1.586	1.378	0.000	1.326	0.057	23	0.35	0	0.00	420	4.57	15	0.26	36	0.62	75	2.24	0	0.00	0.66	0.66	0.66		0.047	0.000	1.378	37.0		178.0		4562	21700
29	7:00	20.5	1.516	1.357	0.000	1.269	0.061	19	0.30	0	0.00	348	3.84	15	0.27	29	0.52	69	2.15	0	0.00	0.66	0.66	0.66		0.056	0.000	1.357		213.0			2281	10850
30	7:00	15.1	1.147	1.052	0.000	0.910	0.050	15	0.31	0	0.00	358	5.10	12	0.27	32	0.80	10	0.43	0	0.00	0.66	0.66	0.66		0.040	0.000	1.052	41.0			61.0	4562	21700
31	7:00	21.8	1.561	1.333	0.000	1.298	0.055	23	0.35	0	0.00	384	4.32	13	0.23	33	0.58	6	0.18	0	0.00	0.66	0.66	0.66		0.055	0.000	1.333					0	0
Total		572.8	42.645	37.997	0.213	35.622	1.771	485	8.29	0	0	10944	136.74	486	9.70	965	19.65	565	19.32	0	0.00					1.503	0.000	37.997	704	688	659	727	130736	607600
Ave.		18.5	1.376	1.226	0.007	1.149	0.057	15.6	0.27	0	0	353	4.41	16	0.31	31.1	0.63	18.2	0.62	0.0	0.00	0.66	0.66	0.66	#DIV/0!	0.048	0.000	1.226	46.9	57.3	50.7	45.4	4217.29	19600
Max		22.0	1.619	1.460	0.019	1.368	0.073	41.0	0.63	0	0	476	6.33	26	0.55287	40	0.97	75	2.43	0	0.00	0.66	0.66	0.66	0	0.060	0.000	1.460	134.0	213.0	178.0	137.0	9,843	43,400
Min		12.7	0.955	0.858	0.000	0.800	0.034	0.0	0.00	0	0	262	2.97	8	0.14	22	0.37	2	0.06	0	0.00	0.66	0.66	0.66	0	0.032	0.000	0.858	29.0	25.0	29.0	29.0	0	0

1	20	% Sodium Permanganate	Post-aerator		**CHLORINATION**		**FLUORIDATION**		I certify that the information in this report is complete
2	40	% BisulfiteSolution	Membrane Backwash						and accurate to the best of my knowledge.
3	12.5	% Sodium Hypochlorite Solution	Post Softener	January	Type of Chlorine Used	Sodium Hypochlorite 12.5 %	Type of Fluoride Used	Hydrofluosilicic Acid 19% F	Reported by: Illinois Operator Certification ID 253419999
4	20	% Ammonium Sulfate Solution	Post Clearwell						Date: 2/7/2025
5	19	% Fluorosilicic Acid Solution	Post Clearwell		Chlorine Analyzers Used: Hach CL17 (2) & 5500sc		Fluoride Analyzer Used: Hach 2200, SPADNS method		
6	33	% Phosphate Solution	Post Clearwell						Date Bacterials Ser 1/27/25, 2/28/25
7	40	% BisulfiteSolution	Lagoon Effluent						