

Monthly Operating Report

September:2024



So. Sangamon
Water Commission
October 21st, 2024

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 September 2024.

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 September 2024, the plant pumped 47.101 million gallons from the well field and 41.594 million gallons of finished water. This is 2.86 million gallons less than September 2023.

The SSWC plant has been removed from Critical Review status.

Operations. There was 0 emergency call-outs for the month. There were numerous customer inquiry for the month.

Maintenance and Repair. For the month of September 2024, there were 30 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 1 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 September 2024.

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 September. 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 47.101 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.	7.70	16.9	1.03	.216	-	368	310	1.811
Min.	4.20	14.3	.32	.142	-	360	280	1.065
Avg.	6.98	15.4	.58	.181	-	358	302	1.570
Total	-	-	-	-	-	-	-	47.101

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 41.594 MG during the month with a daily average of 1.386 MG and a min/max 1.045/ 1.642 MG.

Table 2.3 Finished Water Quality

	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	0.16	3.94	8.0		0.02	0.440	1.18	210	318	2.29
Min.	0.08	2.16	5.2		0.01	0.019	0.02	100	280	1.87
Avg.	0.11	3.13	7.4		0.01	0.069	0.77	122	303	2.08
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2023-24

Time Period	23-24	22-23	21-22
Oct 2023- Sept 2024	412,823,386	426,359,500	412,316,376
Increase for the same period last year	-13.5 MG	14.0 MG	

FINISHED WATER PUMPING HISTORY						
	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
Oct	32,733,224	29,576,287	34,918,955	34,597,739	30,769,238	30,353,482
Nov	30,061,570	35,563,717	31,181,005	32,325,040	30,877,400	30,464,000
Dec	31,818,986	30,450,255	31,391,459	31,582,311	29,703,954	31,930,000
Jan	33,807,516	37,721,005	32,322,270	31,456,987	30,073,516	28,823,375
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
	-----	-----	-----	-----	-----	-----
Totals	412,823,386	426,359,500	412,316,376	418,888,785	386,741,198	359,353,556
Avg	1.13 MGD	1.17 MGD	1.13 MGD	1.15 MGD	1.06 MGD	.985 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)
Sept 10th, 2024						
Minimum	.06	.114	428.6	.01	7.4	6.8
Maximum	.06	.114	428.6	.01	7.4	6.8
Average	.06	.114	428.6	.01	7.4	6.8
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 September 2024. 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 Comm loss

Well check valves

3.2 EMERGENCY & SERVICE CALLS

Service Calls:

- There was 0 emergency call out for the month.

3.3 EMERGENCY CALL-OUTS

There was 0 emergency call out for the month.

3.4 CUSTOMER INQUIRIES

There were numerous customer inquiries.

OTHER WORK PERFORMED

Inspected distribution mains

Inspected booster station

Customer service

Air Compressor Mounting Platform

SCADA programming

Mower Maintenance

New scada computers

Interconnect Start Up

Source Water Protection Plan

Well #11 drilling

Train #2 repair

Meter Transmitter Installation



The meter pit and riser for well #11 has arrived on site.



New compressor and drier installed above MCC room. Lee Electric has ordered the supplies to finish the wiring for the compressor.



The 200 gallon compressor air has been softlined in to the air system. This will allow the staff to move the tank if needed.



Brotke was back onsite to prep the riser for installation

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of September 2024, there were 30 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

Air Compressor service

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

Pump Diagnostics

Well Maintenance

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 September 2024.

- 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 mostly complete. The valve has arrived and has been installed. Multiple startups have been attempted. Due to various issues start up has not been completed. A new startup date is being planned.

Meter Project progressing, All meter bases and registers are on site. 34 cell meters have been installed.

Well #11 has been drilled. Meter pit is on site.

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 has been completed
3. Second raw water detention tank
4. SSWC/Chatham interconnect
5. Well #11
6. SCADA computer upgrade

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIMENSION OF PUBLIC WATER SUPPLIES

DIVISION OF PUBLIC WATER SUPPLIES

South Sangamon Water Commission - IL1670080

Santamher 2021

Raw		Pre UF Membrane						Post UF Membrane						Post IEX						Post Filter							
Date	pH	Total Alk.	Total Fe	Total Mn	Total Fe	Total Mn	Total Fe	Total Mn	Total Chloride	Turbidity	Total	Total	Total Alk.	Total Fe	Total Mn	Total Fe	Total Chloride	F	T	Chlorine Distribution	mgl	mgl	mgl	mgl	mgl		
		deg C	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	mgl	psl	psl	psl	psl	psl			
1	7.20	15.1	310	358	0.71	0.201			0.298	0.081	0.01	0.071	0.22			7.46	0.17	318	104	0.01	0.190	0.81	2.01	0.02	3.09	0.11	3.79
2	7.20	15.1	310	352	0.48	0.196			0.208	0.061	0.01	0.063	0.20			7.46	0.22	306	100	0.01	0.019	0.74	2.44	0.02	3.00	0.11	3.79
3	7.30	15.0	310	350	0.39	0.176			0.224	0.080	0.01	0.072	0.18			7.50	0.24	280	110	0.01	0.025	0.53	2.05	0.02	3.70	0.12	3.94
4	7.10	15.2	280	350	0.54	0.175			0.274	0.067	0.01	0.073	0.25			7.60	0.23	300	100	0.01	0.028	0.98	2.39	0.05	3.34	0.13	3.42
5	7.20	16.3	300	360	0.57	0.162			0.651	0.057	0.01	0.053	0.28			7.70	0.22	300	110	0.01	0.039	0.82	2.44	0.01	3.11	0.10	3.76
6	7.10	16.0	310	355	0.66	0.168			0.314	0.073	0.01	0.071	0.24			7.60	0.24	300	100	0.01	0.036	0.80	2.48	0.01	3.16	0.10	3.48
7	7.20	15.8	300	350	0.39	0.173			0.303	0.054	0.01	0.067	0.26			7.70	0.26	300	110	0.01	0.032	0.76	2.02	0.01	3.28	0.11	3.56
8	7.10	15.7	310	360	0.42	0.165			0.229	0.049	0.01	0.055	0.27			7.70	0.24	300	110	0.01	0.051	0.75	1.87	0.06	3.21	0.12	3.40
9	7.10	15.3	300	360	0.36	0.162			0.310	0.047	0.01	0.077	0.28			7.40	0.21	300	210	0.02	0.054	0.63	2.18	0.01	3.04	0.11	3.10
10	7.10	15.3	300	360	0.70	0.177			0.270	0.084	0.01	0.076	0.25			7.60	0.18	300	180	0.02	0.056	0.56	1.87	0.01	2.55	0.11	3.18
11	7.20	15.6	300	360	0.64	0.166			0.236	0.067	0.01	0.073	0.23			7.60	0.17	310	180	0.01	0.050	0.73	2.11	0.02	2.81	0.10	2.99
12	7.30	14.9	308	352	0.53	0.204			0.302	0.104	0.01	0.090	0.25			7.40	0.20	306	140	0.01	0.033	1.18	2.07	0.01	2.79	0.13	3.35
13	7.10	15.0	310	360	1.03	0.188			0.320	0.078	0.01	0.063	0.23			7.40	0.21	310	120	0.01	0.029	0.93	2.06	0.01	2.61	0.08	3.15
14	7.20	14.3	306	358	0.77	0.179			0.280	0.070	0.01	0.070	0.21			7.50	0.20	306	160	0.01	0.021	0.94	2.10	0.02	2.89	0.10	2.99
15	7.20	14.5	308	360	0.69	0.191			0.236	0.074	0.01	0.070	0.22			5.40	0.28	300	110	0.01	0.071	0.02	2.63	0.01	0.69	0.16	3.30
16	5.30	15.2	300	368	0.82	0.206			0.292	0.118	0.01	0.099	0.32			5.20	0.29	300	100	0.01	0.040	0.35	2.0	0.01	3.38	0.12	3.62
17	5.50	15.3	300	355	0.93	0.201			0.328	0.093	0.02	0.085	0.36			5.20	0.25	300	100	0.01	0.040	0.35	2.0	0.01	3.38	0.12	3.62
18	4.20	15.2	300	360	0.72	0.142			0.267	0.108	0.01	0.094	0.28			5.20	0.25	300	120	0.01	0.049	0.82	2.15	0.05	3.09	0.10	3.40
19	4.50	16.2	300	350	0.67	0.186			0.302	0.117	0.01	0.109	0.26			5.80	0.24	300	110	0.01	0.032	1.98	0.01	2.81	0.14	3.12	
20	7.60	15.5	300	360	0.82	0.216			0.227	0.124	0.01	0.125	0.29			8.00	0.25	300	140	0.01	0.036	0.76	2.13	0.04	2.68	0.13	2.82
21	7.70	15.4	300	360	0.50	0.210			0.198	0.090	0.01	0.117	0.25			7.90	0.20	300	130	0.01	0.030	0.82	2.18	0.04	2.72	0.15	2.98
22	7.60	15.4	300	365	0.32	0.192			0.186	0.072	0.01	0.110	0.18			7.90	0.20	300	125	0.01	0.026	0.80	2.04	0.05	2.47	0.13	3.11
23	7.50	15.6	300	360	0.82	0.181			0.426	0.130	0.01	0.120	0.23			7.90	0.21	300	120	0.01	0.047	0.84	2.29	0.08	2.16	0.09	2.60
24	7.30	15.2	300	352	0.71	0.178			0.384	0.121	0.01	0.109	0.21			7.60	0.19	310	122	0.01	0.041	0.77	2.0	0.04	2.09	0.08	2.16
25	7.40	15.3	300	358	0.65	0.178			0.390	0.145	0.01	0.120	0.20			7.50	0.31	306	116	0.01	0.061	0.87	1.97	0.04	2.22	0.16	2.67
26	7.50	15.1	302	362	0.47	0.186			0.567	0.137	0.02	0.092	0.19			7.90	0.33	310	140	0.01	0.045	0.79	1.94	0.10	2.41	0.09	3.07
27	7.50	16.5	300	360	0.47	0.162			0.333	0.123	0.01	0.123	0.21			8.00	0.32	310	110	0.01	0.031	0.78	1.93	0.03	2.24	0.10	2.38
28	7.40	15.1	300	356	0.44	0.160			0.384	0.131	0.01	0.095	0.19			7.70	0.23	316	110	0.01	0.030	0.79	1.94	0.04	2.21	0.08	2.23
29	7.40	15.2	308	358	0.48	0.171			0.406	0.129	0.01	0.092	0.17			7.70	0.28	312	104	0.01	0.030	0.79	1.97	0.05	2.41	0.08	2.67
30	7.50	16.9	300	360	0.34	0.185			0.166	0.070	0.01	0.130	0.20			8.00	0.25	280	100	0.01	0.036	0.88	2.14	0.01	1.98	0.08	2.26
31																											
Ave.	6.98	15.4	302	368	0.58	0.181	0.00	0.00	0.322	0.032	0.01	0.114	0.24	0.00	0.00	7.36	0.24	303	122	0.01	0.069	0.77	2.06	0.03	2.72	0.11	3.13
Max	7.70	16.9	310	368	1.03	0.216	0.00	0.00	0.980	0.145	0.02	0.010	0.36	0	0	8.00	0.33	318	210	0.02	0.040	1.18	2.29	0.10	3.70	0.16	3.94
Min	4.20	14.3	280	350	0.32	0.142	0.00	0.00	0.166	0.047	0.01	0.053	0.17	0	0	5.20	0.17	280	100	0.01	0.019	0.02	1.67	0.01	0.69	0.08	2.16
Lagoon Effluent Tests	Monthly		pH	Temp	T Chlor	Fe	Chloride	TSS								pH	Temp	TDS	Alkalinity	Calcium	Chloride	Sulfate	Remarks:				
Date	9/01/2024	7.4	24.3	0.01	0.144	0.06	428.6	6.8										4/01/2024	7.84	18.9	390	290	41	50			

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT
South Sangamon Water Commission - IL 1670080
September 2024

Pumping Totals											
Date	Time	Hours	Raw Well	UF Plant	HS Effluent	Lagoon	Sodium Permanganate	Sodium Bisulfite BW	Sodium Hypochlorite	Ammonium Sulfate	Fluorosilicic Acid
Date Read	Prod. Filtered	(Mgal)	Water Pumpage (Mgal)	Water Pumpage (Mgal)	Effluent (Mgal)	(Mgal)	Used Calc mg/l as Cl	Used Calc mg/l as Cl	Used Calc mg/l as F	Used Calc mg/l as NH3	Used Calc mg/l as PO4
1	7:00	16.9	1,323	1,083	0.014	1,154	0.070	11	0.20	0	0.00
2	7:00	17.8	1,482	1,308	0.013	1,225	0.059	11	0.18	0	0.00
3	7:00	18.2	1,502	1,346	0.005	1,280	0.089	13	0.21	0	0.00
4	7:00	21.7	1,798	1,608	0.022	1,434	0.080	11	0.15	0	0.00
5	7:00	21.7	1,504	1,338	0.010	1,302	0.067	11	0.18	0	0.00
6	7:00	18.6	1,551	1,361	0.011	1,301	0.098	13	0.20	0	0.00
7	7:00	19.5	1,619	1,469	0.020	1,298	0.080	10	0.15	0	0.00
8	7:00	18.6	1,553	1,393	0.018	1,282	0.075	8	0.12	0	0.00
9	7:00	18.0	1,458	1,271	0.008	1,253	0.087	12	0.20	0	0.00
10	7:00	21.5	1,755	1,582	0.024	1,449	0.091	13	0.18	0	0.00
11	7:00	21.4	1,756	1,558	0.014	1,478	0.080	13	0.18	0	0.00
12	7:00	20.9	1,772	1,521	0.014	1,421	0.090	11	0.15	0	0.00
13	7:00	19.4	1,518	1,114	0.018	1,354	0.095	13	0.21	0	0.00
14	7:00	19.9	1,777	1,539	0.017	1,286	0.077	12	0.17	0	0.00
15	7:00	20.2	1,683	1,380	0.013	1,443	0.081	13	0.19	0	0.00
16	7:00	18.5	1,578	1,334	0.015	1,292	0.086	12	0.18	0	0.00
17	7:00	21.9	1,811	1,619	0.018	1,522	0.080	14	0.19	0	0.00
18	7:00	21.9	1,811	1,604	0.014	1,509	0.104	15	0.20	0	0.00
19	7:00	21.9	1,773	1,617	0.016	1,490	0.087	11	0.15	0	0.00
20	7:00	22.0	1,765	1,548	0.017	1,483	0.085	10	0.14	0	0.00
21	7:00	18.9	1,566	1,373	0.013	1,285	0.074	14	0.21	0	0.00
22	7:00	18.7	1,581	1,642	0.010	1,290	0.095	7	0.11	0	0.00
23	7:00	18.5	1,502	1,126	0.021	1,313	0.074	10	0.16	0	0.00
24	7:00	21.4	1,810	1,609	0.014	1,522	0.077	7	0.09	0	0.00
25	7:00	16.4	1,396	1,234	0.005	1,146	0.064	7	0.12	0	0.00
26	7:00	16.4	1,262	1,180	0.014	1,161	0.070	7	0.13	0	0.00
27	7:00	13.5	1,065	1,285	0.014	0.832	0.056	7	0.16	0	0.00
28	7:00	17.5	1,370	1,253	0.010	1,158	0.075	6	0.11	0	0.00
29	7:00	15.2	1,148	1,045	0.010	1,046	0.078	7	0.15	0	0.00
30	7:00	21.3	1,671	1,272	0.022	1,411	0.073	7	0.10	0	0.00
Total		578.3	47,101	41,594	0.434	39,377	2,390	316	#DV[0]	0	#DV[0]
Ave.		19.3	1,570	1,386	0.014	1,313	0.080	10.5	#DV[0]	0	#DV[0]
Max		22.0	1,811	1,642	0.024	1,522	0.104	15.0	#DV[0]	0	#DV[0]
Min		13.5	1,065	1,045	0.005	0.832	0.056	6.0	#DV[0]	0	#DV[0]

South Sangamon Water Commission

Chlorination											
Post-treater											
Membrane Backwash											
Type of Chlorine Used	Sodium Hypochlorite 12.5%	Type of Fluoride Used	Hydrofluosilicic Acid 19% F	Fluoride Analyzer Used: Hach CL17(2) & 5500ics	Chlorine Analyzers Used: Hach CL17(2) & 5500ics	Fluoride Analyzer Used: Hach 2200 SPADNS method	Bacteria Test	#DV[0]	#DV[0]	#DV[0]	#DV[0]
20% Sodium Permanganate											
40% Bisulfite Solution											
12.5% Sodium Hypochlorite Solution											
20% Ammonium Sulfate Solution											
19% Hydrofluoric Acid Solution											
3% Phosphate Solution											
40% Bisulfite Solution											

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UF Filters											
Softeners											
Regeneration											
Date	Hours	Raw Well	UF Plant	HS Effluent	Lagoon	Sodium Permanganate	Sodium Bisulfite BW	Sodium Hypochlorite	Ammonium Sulfate	Fluorosilicic Acid	Phosphate
Date Read	Prod. Filtered	(Mgal)	Water Pumpage (Mgal)	Water Pumpage (Mgal)	Effluent (Mgal)	Used Calc mg/l as Cl	Used Calc mg/l as Cl	Used Calc mg/l as F	Used Calc mg/l as NH3	Used Calc mg/l as PO4	Used Calc mg/l as PO4
1	7:00	16.9	1,323	1,083	0.014	1,154	0.070	11	0.20	0	0.00
2	7:00	17.8	1,482	1,308	0.013	1,225	0.059	11	0.18	0	0.00
3	7:00	18.2	1,502	1,346	0.005	1,280	0.089	13	0.21	0	0.00
4	7:00	21.7	1,798	1,608	0.022	1,434	0.080	11	0.15	0	0.00
5	7:00	21.7	1,504	1,338	0.010	1,302	0.067	11	0.18	0	0.00
6	7:00	18.6	1,551	1,361	0.011	1,301	0.098	13	0.20	0	0.00
7	7:00	19.5	1,619	1,469	0.020	1,298	0.080	10	0.15	0	0.00
8	7:00	18.6	1,553	1,393	0.018	1,282	0.075	8	0.12	0	0.00
9	7:00	18.0	1,458	1,271	0.008	1,253	0.087	12	0.20	0	0.00
10	7:00	21.5	1,755	1,582	0.024	1,449	0.091	13	0.18	0	0.00
11	7:00	21.4	1,756	1,558	0.014	1,478	0.080	13	0.18	0	0.00
12	7:00	20.9	1,772	1,521	0.014	1,421	0.090	11	0.15	0	0.00
13	7:00	19.4	1,518	1,114	0.018	1,354	0.095	13	0.21	0	0.00
14	7:00	19.9	1,777	1,539	0.017	1,286	0.077	12	0.17	0	0.00
15	7:00	20.2	1,683	1,380	0.013	1,443	0.081	13	0.19	0	0.00
16	7:00	18.5	1,578	1,334	0.015	1,292	0.086	12	0.18	0	0.00
17	7:00	21.9	1,811	1,619	0.018	1,522	0.080	14	0.19	0	0.00
18	7:00	21.9	1,811	1,604	0.014	1,509	0.104	15	0.20	0	0.00
19	7:00	21.9	1,773	1,617	0.016	1,490	0.087	11	0.15	0	0.00
20	7:00	22.0	1,765	1,548	0.017	1,483	0.085	10	0.14	0	0.00
21	7:00	18.9	1,566	1,373	0.013	1,285	0.074	14	0.21	0	0.00
22	7:00	18.7	1,581	1,642	0.010	1,290	0.095	7	0.11	0	0.00
23	7:00	18.5	1,502	1,126	0.021	1,313	0.074	10	0.16	0	0.00
24	7:00	21.4	1,810	1,609	0.014	1,522	0.077	7	0.09	0	0.00
25	7:00	16.4	1,396	1,234	0.005	1,146	0.064	7	0.12	0	0.00
26	7:00	16.4	1,262	1,180	0.014	1,161	0.070	7	0.13	0	0.00
27	7:00	13.5	1,065	1,285	0.014	0.832	0.056	7	0.16	0	0.00
28	7:00	17.5	1,370	1,253	0.010	1,158	0.075	6	0.11	0	0.00
29	7:00	15.2	1,148	1,045	0.010	1,046	0.078	7	0.15	0	0.00
30	7:00	21.3	1,671	1,272	0.022	1,411	0.073	7	0.10	0	0.00
Total		578.3	47,101	41,594	0.434	39,377	2,390	316	#DV[0]	0	#DV[0]
Ave.		19.3	1,570	1,386	0.014	1,313	0.080	10.5	#DV[0]	0	#DV[0]
Max		22.0	1,811	1,642	0.024	1,522	0.104	15.0	#DV[0]	0	#DV[0]
Min		13.5	1,065	1,045	0.005	0.832	0.056	6.0	#DV[0]	0	#DV[0]

I certify that the information in this report is complete and accurate to the best of my knowledge.

Reported by: _____ Illinois Operator Certification #: _____

Date: _____ 01/01/2024

Date Bacteria Test: _____ 9/26/2024

Reported by: _____ Illinois Operator Certification #: _____

Date: _____ 01/01/2024

Date Bacteria Test: _____ 9/26/2024

Fluoridation											
Regeneration											
Salt Washed											
Date	Hours	Raw Well	UF Plant	HS Effluent	Lagoon	Sodium Permanganate	Sodium Bisulfite BW	Sodium Hypochlorite	Ammonium Sulf		