

Monthly Operating Report

December:2022



So. Sangamon
Water Commission
January 17th, 2023

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 December 2022.

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 December 2022, the plant pumped 44.246 million gallons from the well field and 36.245 million gallons of finished water. This is .3 million gallons less than December of 2021.

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 December 2022, there were 31 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 1 repair activities performed .

Budget. Passed at April 18th 2022 meeting.

Capital Planning.

Chatham emergency interconnect

Onsite fuel storage tanks

Detention Tank

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 December 2022.

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 December. 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 44.246 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.	7.2	15.7	3.43	.335	-	365	340	1.708
Min.	6.9	11.8	.37	.168	-	280	300	.573
Avg.	7.1	13.7	.93	.257	-	340	310	1.427
Total	-	-	-	-	-	-	-	44.246

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 39.058 MG during the month with a daily average of 1.260 MG and a min/max .526/ 1.517 MG.

Table 2.3 Finished Water Quality

	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	.09	3.90	7.8		0.02	0.064	.88	360	320	4.03
Min.	0.04	2.56	7.4		0.01	0.004	0.43	90	280	2.01
Avg.	0.06	3.23	7.6		0.01	0.021	0.72	138	302	2.46
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2022

Time Period	21-22	20-21	19-20
Jan 2022- Dec 2022	410,415,216	417,875,114	393,895,696
Increase for the same period last year	-7.5 MG	24 MG	

FINISHED WATER PUMPING HISTORY						
	2022	2021	2020	2019	2018	2017
Jan	32,322,270	31,456,987	30,073,516	28,823,375	30,556,824	30,449,215
Feb	32,451,653	30,638,842	28,797,693	28,625,431	25,617,914	27,373,232
Mar	33,909,417	33,633,244	30,339,298	31,237,000	28,217,699	30,068,363
Apr	31,991,050	33,214,211	31,542,650	28,418,249	27,110,578	29,625,797
May	37,459,417	35,932,776	34,673,848	33,045,927	33,304,196	32,120,873
June	38,496,145	37,616,256	17,414,377	33,460,303	34,040,000	39,931,402
July	38,861,790	39,001,640	44,237,066	23,742,374	41,178,722	42,164,927
Aug	36,977,913	39,953,900	39,638,063	25,018,633	35,176,238	38,760,634
Sept	32,355,302	38,935,839	38,674,095	34,234,782	34,754,000	39,896,986
Oct	29,576,287	34,918,955	34,597,739	30,769,238	30,353,482	33,506,605
Nov	35,563,717	31,181,005	32,325,040	30,877,400	30,464,000	28,617,333
Dec	30,450,255	31,391,459	31,582,311	29,703,954	31,930,000	28,808,037
	-----	-----	-----	-----	-----	-----
Totals	410,415,216	417,875,114	393,895,696	357,956,666	382,703,653	401,323,404
Avg	1.12 MGD	1.15 MGD	1.08 MGD	.981 MGD	1.05 MGD	1.10 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)
Dec 5th 2022	.27	.197	369	.01	7.5	<4
Minimum	.27	.197	369	.01	7.5	<4
Maximum	.27	.197	369	.01	7.5	<4
Average	.27	.197	369	.01	7.5	<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 December 2022. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

There was 0 incident that impacted the operation of the plant.

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

Trouble shooting all trains
Trouble shooting of CIP skid and CIP procedure
Inspected distribution mains
Inspected booster station
Flushed air system
Trouble shooting of Ion exchange system
Repair of air compressors
Customer service



Plant compressor #2 went down during the month of December. Plant staff piped in portable compressors to help with air pressure.



After inspection it was found that the motor starter and the compressor control module had both went bad. Parts were ordered. The compressor is also blowing oil and has been for sometime. Option are being explored.



New motor start and control module have arrived and have been installed.



Replacement pump and motor have arrived

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of December 2022, there were 31 inspections, 3 preventative and multiple corrective maintenance activity completed.

4.2 CORRECTIVE REPAIR

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

Repair of train #3

Repair of train #2

Air Compressor repair

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 December 2022.

- Kevin Canham
- Stephen Bivin
- Katie Krall
- Dan (SCADAware)
- Joe Lee
- Kevin Garmin (SCADAware)

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.

Benton and Assoc put the Chatham Interconnect out for bid. There were 2 bids; The bid was awarded to Petersburg Plumbing.

Train #2 upgrade repair has been completed and train #2 online.

Meter Project progressing, All meter bases and registers are on site. 5 cell meters have been installed.

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. Second Torray filter train has been installed
2. Onsite fuel storage tanks have arrived on site and pumps have been installed
3. BOP CPU upgrade has been completed
4. Second raw water detention tank
5. SSWC/Chatham interconnect

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT

South Sangamon Water Commission - IL 1670080

December 2022

Date	Time	Pumping Totals				Chemicals Applied								UF Filters				Softeners				Regeneration											
		Raw Well Read	Raw U/F Prod Filter Read	HS Pump Filter Raw	Lagoon Effluent	Sodium Pernmanganate	Sodium Bisulfite BW	Sodium Sulfite	Sodium Hypochlorite	Amnt Used as NaO4	Amnt Used Calc as Cl	Amnt Used Calc as F	Amnt Used Calc as F04	Amnt Used Calc as F04	Amnt Used Calc as F04	Amnt Used Calc as F04	Hours since previous backwash	Wash Water	Water Water	Water Water	Each day indicate total number of hours since previous regeneration. Regeneration and day indicate hours previous hours following.	Salt Wasted Used Water Gals.											
1	7:00	10:55	1,448	1,264	0.001	1,180	0.070	18	0.30	0.00	358	4.25	60	1,144	35	0.68	11	0.37	15	10.25	0.66	0.66	0.051	0.826	0.436	36.0	34.0	75.0	33.0	9124	43400		
2	7:00	10:56	1,512	1,322	0.007	1,194	0.078	17	0.27	0.00	366	4.15	64	1,16	37	0.71	13	0.43	19	11.63	0.66	0.66	0.064	0.824	0.456	40.0	31.0	6843	32550				
3	7:00	10:59	1,529	1,380	0.005	1,294	0.075	16	0.25	0.00	373	3.79	59	1.06	32	0.56	18	0.55	12	7.72	0.66	0.66	0.065	0.875	0.453	43.0	26.0	4562	27100				
4	7:00	11:37	1,136	1,184	0.001	1,095	0.054	18	0.32	0.00	384	4.86	65	1,322	34	0.73	63	2.34	14	12.48	0.66	0.66	0.049	0.774	0.410	36.0	22.81	10850					
5	7:00	20:00	1,585	1,387	0.010	1,270	0.082	17	0.26	0.00	374	4.04	62	1,077	35	0.63	93	2.90	21	10.93	0.66	0.66	0.073	0.807	0.486	35.0	62.0	47.0	26.0	9124	34340		
6	7:00	2:55	1,698	1,511	0.007	1,423	0.088	18	0.25	0.00	364	3.61	62	0.98	33	0.53	4	0.11	15	8.21	0.66	0.66	0.078	0.988	0.523	16.0	26.0	4562	27170				
7	7:00	18:8	1,480	1,284	0.008	1,200	0.072	15	0.24	0.00	338	3.95	55	1.03	31	0.59	7	0.23	11	7.37	0.66	0.66	0.062	0.839	0.445	6.0	36.0	4562	271700				
8	7:00	19:1	1,434	1,270	0.008	1,299	0.072	18	0.30	0.00	372	4.39	59	1.07	30	0.62	9	0.29	14	9.38	0.66	0.66	0.062	0.830	0.446	45.0	73.0	4562	271700				
9	7:00	18:5	1,257	1,304	0.002	1,070	0.081	15	0.29	0.00	338	3.88	59	1.09	33	0.70	10	0.37	19	11.20	0.66	0.66	0.067	0.852	0.452	37.0	34.0	36.0	36.0	6843	32550		
10	7:00	2:46	1,689	1,577	0.012	1,314	0.083	18	0.26	0.00	368	3.64	59	0.93	31	0.54	10	0.30	14	8.13	0.66	0.66	0.073	0.932	0.525	23.0	32.0	4562	271700				
11	7:00	19:0	1,553	1,360	0.0010	1,258	0.080	19	0.29	0.00	416	4.58	65	1,15	39	0.71	15	0.47	15	8.95	0.66	0.66	0.066	0.869	0.473	38.0	29.0	33.0	6843	32550			
12	7:00	18:9	1,490	1,377	0.013	1,228	0.072	17	0.27	0.00	358	4.07	59	1.07	33	0.61	14	0.45	14	9.03	0.66	0.66	0.065	0.861	0.456	26.0	93.0	4562	271700				
13	7:00	2:55	1,697	1,494	0.0010	1,415	0.083	18	0.25	0.00	392	3.93	62	1.00	35	0.56	24	0.67	19	9.03	0.66	0.66	0.059	0.976	0.515	36.0	27.0	32.0	6843	32550			
14	7:00	20:5	1,626	1,477	0.014	1,289	0.085	15	0.22	0.00	338	3.58	51	0.86	31	0.54	72	2.19	20	11.24	0.66	0.66	0.071	0.926	0.491	40.0	48.0	34.0	34.0	6843	32550		
15	7:00	19:0	1,405	1,243	0.016	1,173	0.083	18	0.31	0.00	384	4.63	53	1.02	33	0.64	6	0.20	14	10.68	0.66	0.66	0.058	0.812	0.434	33.0	22.81	10850					
16	7:00	20:0	1,577	1,373	0.005	1,284	0.086	11	0.17	0.00	362	3.95	45	0.79	33	0.59	9	0.28	18	11.13	0.66	0.66	0.067	0.897	0.476	36.0	31.0	50.0	32.0	9124	34340		
17	7:00	18:6	1,539	1,333	0.006	1,246	0.077	18	0.28	0.00	370	4.16	50	0.90	33	0.60	10	0.32	13	8.06	0.66	0.66	0.063	0.871	0.462	37.0	30.0	34.0	6843	32550			
18	7:00	18:6	1,587	1,382	0.002	1,303	0.072	17	0.26	0.00	372	4.09	51	0.90	31	0.54	13	0.39	12	8.02	0.66	0.66	0.067	0.880	0.472	34.0	22.81	10850					
19	7:00	20:0	1,585	1,387	0.010	1,270	0.071	19	0.29	0.00	388	4.30	58	1.00	36	0.65	17	0.53	21	14.11	0.66	0.66	0.057	0.907	0.486	34.0	30.0	67.0	30.0	6843	32550		
20	7:00	2:55	1,688	1,511	0.007	1,423	0.080	19	0.27	0.00	366	3.93	58	0.92	34	0.54	46	1.28	19	10.11	0.66	0.66	0.071	0.988	0.523	38.0	28.0	30.0	31.0	9124	43400		
21	7:00	18:8	1,480	1,284	0.008	1,200	0.077	17	0.28	0.00	378	4.41	59	1.10	34	0.65	97	3.20	11	6.58	0.66	0.66	0.067	0.839	0.445	28.0	33.0	4562	271700				
22	7:00	18:7	1,434	1,270	0.008	1,249	0.089	18	0.30	0.00	372	4.39	54	1.02	33	0.62	39	1.28	18	12.44	0.66	0.66	0.055	0.830	0.440	29.0	44.0	6843	32550				
23	7:00	18:5	1,257	1,304	0.012	1,070	0.071	12	0.23	0.00	372	4.28	61	1.12	72	0.72	6	0.22	14	9.49	0.66	0.66	0.066	0.852	0.452	36.0	22.81	10850					
24	7:00	2:46	1,681	1,577	0.002	1,314	0.074	4	0.06	0.00	298	2.94	45	0.71	28	0.49	10	0.30	14	9.03	0.66	0.66	0.066	0.892	0.523	43.0	42.0	6843	32550				
25	7:00	19:0	1,553	1,360	0.010	1,258	0.058	8	0.12	0.00	348	3.84	19	0.34	15	0.27	6	0.19	15	12.40	0.66	0.66	0.058	0.889	0.471	0	0	0	0	0	0		
26	7:00	8:2	1,053	1,058	0.000	1,042	0.031	8	0.33	0.00	160	4.46	22	0.98	17	0.80	7	0.57	6	9.35	0.66	0.66	0.026	0.882	0.486	66.0	22.81	10850					
27	7:00	10:10	1,680	1,526	0.008	1,565	0.021	6	0.21	0.00	126	3.59	17	0.78	13	0.52	6	0.42	11	25.38	0.66	0.66	0.016	0.844	0.182	12.0	22.81	10850					
28	7:00	9:3	1,011	1,076	0.005	1,015	0.040	7	0.27	0.00	144	3.75	22	0.92	15	0.66	10	0.77	9	10.69	0.66	0.66	0.026	0.936	0.227	5.0	9.0	6843	32550				
29	7:00	14:5	1,978	1,655	0.012	1,867	0.043	15	0.37	0.00	334	7.64	48	1.76	31	0.81	14	0.64	14	16.15	0.66	0.66	0.032	0.928	0.227	33.0	47.0	4562	271700				
30	7:00	2:46	1,564	1,349	0.009	1,240	0.089	19	0.29	0.00	406	4.51	67	1.19	36	0.66	22	0.70	16	11.19	0.66	0.66	0.059	0.882	0.467	33.0	35.0	4562	271700				
31	7:00	2:46	1,708	1,501	0.012	1,425	0.081	19	0.27	0.00	414	4.13	50	1.09	37	0.59	89	2.47	23	13.56	0.66	0.66	0.067	0.820	0.526	36.0	45.0	32.0	38.0	6843	32550		
Total		57.5	44.246	39.058	39.329	36.245	2180	474	8.08	0	10738	12872	1651	3179	965	19.08	770	25.45	472	33.11	1.83	1.82	0.66	0.66	#D/WI	0.059	0.823	0.436	38.2	37.4	35.5	37.203	24904.8
Ave.		18.4	1427	1,260	0.011	1,189	0.070	15.3	0.26	0.00	346	4.18	53	1.03	31	0.62	24.8	0.82	15.2	10.84	0.66	0.66	0.059	0.823	0.436	38.2	37.4	35.5	37.203	24904.8			
Max		2.6	1,708	1,517	0.017	1,425	0.092	19.0	0.37	0	416	7.64	90	175737	39	0.81	97	3.20	23	25.38	0.66	0.66	0.078	0.932	0.525	66.0	91.0	122.0	90.0	9124	43400		
Min		2	1073	1,056	0.000	1,042	0.021	4.0	0.06	0	126	2.94	17	0.34	13	0.27	4	0.11	6	6.89	0.66	0.66	0.016	0.344	0.182	16.0	26.0	30.0	0	0	0		

1 20% Sodium Permanganate Pre-aerator
2 40% Bisulfite/Sulfur Membrane Backwash
3 12.5% Sodium Hypochlorite Used
4 20% Ammonium Sulfite Solution Post Filter
5 19% Fluorosilicic Acid 18.550% Chlorine Analyzer Used Hatch Cl17(2) & 5500SC
6 33% Phosphate Solution Post Cleanell Lagoon Effluent
7 40% Bisulfite/Sulfur

FLUORIDATION
CHLORINATION
Type of Chlorine Used Sodium Hypochlorite 12.5% Hydrofluoric Acid 19% F Fluoride Analyzer Used Hatch SPADNS method Date Entered Serial Number 12/20/2022

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

South Sangamon Water Commission - IL1670080

December 2022

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Physical and Chemical Tests

Date	pH	Temp	Alk.	Hard.	Fe	Mn	Total	Turbidity	Total	Soluble	Post UF Membrane			Post IEX			Finished			Membrane integrity								
											Pre UF Membrane			Total Chloride			Turbidity			Total Chloride			Free Chloramine					
											Total mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	F	T	Bank 1 mg/L	Bank 2 mg/L	Bank 3 mg/L			
1	7.00	13.9	310	280	0.72	0.355					0.381	0.102	0.01	0.030	0.36	7.60	0.34	300	160	0.01	0.024	0.80	2.39	0.10	7.16	0.06	340	
2	7.00	14.0	300	315	0.45	0.213					0.327	0.091	0.01	0.057	0.33	7.70	0.30	300	100	0.01	0.041	0.71	2.36	0.07	7.66	0.05	3.58	
3	7.10	13.6	306	330	1.46	0.241					0.311	0.088	0.01	0.041	0.38	7.50	0.44	294	110	0.01	0.022	0.80	2.28	0.53	7.58	0.05	3.09	
4	7.10	13.9	320	342	0.68	0.240					0.364	0.153	0.01	0.109	0.32	7.80	0.25	292	100	0.01	0.020	0.83	0.22	0.89	0.04	3.28		
5	7.10	14.2	320	340	0.43	0.208					0.336	0.092	0.02	0.041	0.34	7.70	0.30	320	120	0.01	0.012	0.57	2.15	0.08	7.38	0.06	3.14	
6	7.00	14.2	310	310	1.70	0.282					0.425	0.166	0.01	0.104	0.36	7.60	0.29	310	140	0.01	0.011	0.64	2.53	0.19	7.90	0.06	3.90	
7	6.90	15.7	320	342	1.70	0.284					0.416	0.266	0.01	0.103	0.38	7.40	0.31	312	130	0.01	0.018	0.78	2.58	0.14	8.11	0.05	3.20	
8	7.10	14.1	320	345	1.09	0.198					0.337	0.070	0.01	0.045	0.29	7.60	0.27	320	140	0.01	0.032	0.59	2.09	0.12	7.64	0.06	3.54	
9	7.00	14.3	300	320	0.40	0.190					0.279	0.051	0.01	0.030	0.32	7.70	0.29	300	110	0.01	0.011	0.59	2.55	0.12	7.82	0.06	3.62	
10	7.00	14.1	300	330	0.45	0.198					0.312	0.072	0.01	0.034	0.36	7.70	0.32	300	100	0.01	0.024	0.56	2.15	0.11	7.60	0.05	3.40	
11	7.00	14.1	300	340	0.58	0.213					0.289	0.088	0.01	0.030	0.36	7.70	0.34	300	100	0.01	0.018	0.70	2.34	0.12	7.42	0.05	3.22	
12	7.00	13.9	330	330	0.41	0.220					0.297	0.088	0.01	0.046	0.38	7.70	0.32	300	120	0.01	0.039	0.72	2.19	0.06	7.38	0.05	2.94	
13	7.10	13.2	320	310	0.51	0.205					0.346	0.123	0.01	0.075	0.34	7.70	0.33	300	110	0.01	0.014	0.81	2.57	0.07	7.12	0.07	3.02	
14	7.10	14.4	300	340	1.08	0.301					0.397	0.161	0.01	0.030	0.32	7.60	0.30	300	130	0.01	0.006	0.55	2.43	0.05	6.50	0.09	3.22	
15	7.00	13.8	310	352	1.08	0.230					0.274	0.144	0.01	0.020	0.31	7.50	0.38	300	90	0.01	0.008	0.80	2.49	0.01	7.95	0.05	3.14	
16	7.00	13.6	320	352	2.15	0.271					0.315	0.072	0.01	0.022	0.29	7.50	0.32	292	100	0.01	0.004	0.83	2.51	0.03	7.62	0.05	3.11	
17	7.10	13.5	320	346	1.71	0.284					0.320	0.088	0.01	0.024	0.28	7.50	0.32	296	100	0.01	0.008	0.81	2.44	0.05	7.82	0.06	3.08	
18	7.10	13.6	340	352	0.98	0.270					0.366	0.084	0.01	0.041	0.31	7.50	0.29	304	110	0.01	0.011	0.84	2.33	0.05	7.81	0.05	3.12	
19	7.10	13.5	300	320	0.37	0.297					0.279	0.152	0.01	0.043	0.36	7.70	0.33	300	140	0.01	0.014	0.43	2.22	0.01	6.15	0.05	3.70	
20	7.10	13.9	310	340	0.65	0.299					0.439	0.161	0.01	0.076	0.38	7.60	0.34	300	120	0.01	0.026	0.72	2.60	0.01	7.53	0.09	2.92	
21	7.10	13.7	300	360	0.73	0.277					0.361	0.091	0.01	0.071	0.40	7.60	0.36	300	100	0.01	0.020	0.58	2.43	0.01	7.52	0.06	3.52	
22	7.20	13.6	320	365	3.43	0.308					0.304	0.072	0.01	0.020	0.38	7.60	0.32	300	130	0.01	0.008	0.78	2.38	0.01	6.97	0.06	3.24	
23	7.10	13.1	300	340	0.93	0.231					0.336	0.084	0.01	0.030	0.36	7.60	0.32	300	110	0.01	0.016	0.76	2.36	0.01	6.58	0.06	3.30	
24	7.10	13.2	300	345	0.77	0.273					0.306	0.078	0.01	0.036	0.40	7.60	0.34	300	100	0.01	0.024	0.70	2.44	0.01	6.88	0.08	3.12	
25	7.00	13.2	300	360	0.54	0.245					0.320	0.109	0.01	0.040	0.38	7.70	0.36	300	100	0.01	0.036	0.78	2.39	0.01	6.43	0.06	3.06	
26	7.10	12.4	310	345	0.73	0.221					0.280	0.087	0.01	0.050	0.38	7.60	0.32	310	220	0.01	0.038	0.78	2.01	0.01	6.18	0.06	2.94	
27	7.20	11.8	310	360	0.54	0.322					0.496	0.140	0.01	0.182	0.46	7.70	0.35	300	310	0.01	0.031	0.68	4.03	0.01	6.62	0.09	2.56	
28	7.10	13.0	320	365	1.20	0.302					0.368	0.086	0.01	0.074	0.52	7.60	0.42	310	360	0.02	0.064	0.88	3.64	0.01	5.62	0.08	3.16	
29	7.20	14.4	310	360	0.53	0.227					0.337	0.107	0.01	0.078	0.48	7.60	0.40	310	200	0.01	0.033	0.70	2.43	0.01	7.19	0.05	3.24	
30	7.10	14.5	310	352	0.37	0.272					0.401	0.104	0.01	0.076	0.48	7.60	0.36	280	170	0.01	0.034	0.79	2.33	0.01	8.23	0.06	3.25	
31	7.10	13.6	302	360	0.39	0.168					0.270	0.060	0.02	0.051	0.40	7.60	0.31	310	160	0.01	0.026	0.88	2.21	0.02	8.11	0.05	3.06	
Ave.	7.07	13.7	310	340	0.93	0.257	#D/W/01	#D/W/01	0.341	0.107	0.01	0.070	0.37	7.62	0.33	302	138	0.01	0.024	0.72	2.46	0.07	7.30	0.06	3.23			
Max	7.20	15.7	340	365	3.43	0.335	0.000	0.000	0.496	0.286	0.02	0.500	0.52	0	0	0	7.80	0.44	320	360	0.02	0.064	0.88	4.03	0.03	8.23	0.09	3.90
Min	6.90	11.8	300	280	0.37	0.168	0.000	0.000	0.270	0.051	0.01	0.020	0.28	0	0	0	7.40	0.25	280	90	0.01	0.004	0.43	2.01	0.01	5.62	0.04	2.56
Lagoon Effluent Tests																												
Monthly	Date	12/5/2022	7.5	104	0.01	0.197	0.27	369	44																			

