



Monthly Operating Report

February:2023

SSWC

9199 Buckhart Rd Rochester IL 62563

So. Sangamon
Water Commission
March 20th, 2023

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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 February 2023.

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 February 2023, the plant pumped 49.090 million gallons from the well field and 40.412 million gallons of finished water. This is 1.65 million gallons more than January 2022.

The SSWC plant has been removed from Critical Review status.

Operations. There was 2 emergency call-outs for the month. There were numerous customer inquiry for the month.

Maintenance and Repair. For the month of February 2023, 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 February 2023.

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 February. 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 49.090 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.	7.4	15.2	3.38	.730	-	360	320	1.710
Min.	7.0	12.5	.04	.166	-	300	300	1.384
Avg.	7.2	13.8	.72	.212	-	337	311	1.584
Total	-	-	-	-	-	-	-	49.090

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 42.858 MG during the month with a daily average of 1.383 MG and a min/max 1.219/ 1.518 MG.

Table 2.3 Finished Water Quality										
	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	.5	3.52	7.9		0.01	0.061	.99	240	320	2.48
Min.	0.02	2.79	7.6		0.01	0.010	0.46	100	280	1.97
Avg.	0.09	3.43	7.7		0.01	0.025	0.70	136	305	2.28
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
Mar 2022- Feb 2023	415,813,951	418,740,397	395,279,167
Increase for the same period last year		-2.9 MG	23.5 MG

FINISHED WATER PUMPING HISTORY						
	2022-23	2021-22	2020-21	2019-20	2018-19	2017-18
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
Jan	37,721,005	32,322,270	31,456,987	30,073,516	28,823,375	30,556,824
Feb		32,451,653	30,638,842	28,797,693	28,625,431	25,617,914
	-----	-----	-----	-----	-----	-----
Totals	415,813,951	418,740,397	395,279,167	359,206,807	380,970,204	401,431,013
Avg	1.14 MGD	1.15 MGD	1.08 MGD	.984 MGD	1.04 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)	Cl² (mg/l)	pH (S.U.)	TSS (mg/l)
Feb 6th, 2023						
Minimum	.19	.318	2	.03	7.9	4
Maximum	.19	.318	2	.03	7.9	4
Average	.19	.318	2	.03	7.9	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 February 2023. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

There was 36 incident that impacted the operation of the plant.

Low Clearwell level

Backwash low flow

Ion exchange alarm

Westech air pressure alarm

Westech filters comm loss

3.2 EMERGENCY & SERVICE CALLS

Service Calls:

- There was 0 emergency call out for the month.

3.3 EMERGENCY CALL-OUTS

There was 2 emergency call out for the month.

3.4 CUSTOMER INQUIRIE

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

Customer service

Air Compressor research

SCADA programming



Well #6 began quickly losing flow in the beginning of January. Brotke was scheduled to come and do a well clean and a pump replacement if necessary.



Once well #6 pump was pulled it was found to be fouled with iron. Luckily the pump and motor we had previously ordered for stock had arrived and we were able to replace the pump without having to wait for one to arrive.



Well #6 pump completely fouled and full of iron.



Staff flushed the raw water line to remove iron and manganese that may have settled out in the raw water main.



Brotke taking a video of our well after cleaning

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of February 2023, 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

Well #6 repair

Raw water line flushing

Detention tank flush

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 February 2023.

- 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.

The Chatham /South Sangamon emergency interconnect is progressing. There was a preconstruction meeting in February. Petersburg Plumbing is planning on starting construction mid March, weather and materials permitting.

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

South Sangamon Water Commission - IL1670080
January 2023

Date	Physical and Chemical Tests														Membrane Integrity													
	Raw				Pre UF Membrane				Post UF Membrane				Post EX				Finished			Post Filter								
	pH	Temp deg.C	Alk. mg/L	Total Hard. mg/L	Total Fe mg/L	Turbidity NTU	Total Mh mg/L	Total Mn mg/L	Soluble Mh mg/L	Total Fe mg/L	Total Mh mg/L	Total Mn mg/L	Turbidity NTU	Total Alk. mg/L	Total Hard. mg/L	Total Fe mg/L	Total Mh mg/L	Total Mn mg/L	Ortho Phosphate mg/L	Free Ammonia mg/L	Monochloramine mg/L	Chlorine F mg/L	Chlorine T mg/L	Distribution F mg/L	Distribution T mg/L	Bank 1 Bank 2 Bank 3 psi	psi	psi
1	7.00	15.2	312	358	0.33	0.166		0.266	0.039	0.01	0.025	0.23	7.70	0.28	308	120	0.01	0.014	0.89	2.41	0.02	8.04	0.04	3.23				
2	7.10	14.9	310	352	0.48	0.192	0.248	0.033	0.01	0.025	0.25	7.60	0.26	310	120	0.01	0.011	0.91	2.14	0.03	7.91	0.04	3.18					
3	7.20	14.5	300	350	0.46	0.194	0.402	0.069	0.01	0.045	0.31	7.70	0.28	300	110	0.01	0.012	0.97	2.41	0.01	8.03	0.08	3.82					
4	7.20	13.9	310	300	0.49	0.246	0.300	0.070	0.01	0.077	0.36	7.70	0.27	300	165	0.01	0.061	0.77	2.12	0.01	8.06	0.14	2.80				pass	pass
5	7.20	13.8	320	300	0.45	0.171	0.308	0.041	0.01	0.066	0.34	7.70	0.30	300	100	0.01	0.015	0.80	2.36	0.01	7.98	0.09	3.94					
6	7.40	13.7	320	340	0.72	0.180	0.301	0.042	0.01	0.036	0.30	7.70	0.28	300	130	0.01	0.020	0.49	2.23	0.01	6.81	0.06	3.58					
7	7.40	13.9	310	350	0.62	0.201	0.311	0.050	0.01	0.037	0.36	7.70	0.30	300	120	0.01	0.024	0.89	2.17	0.01	6.98	0.08	3.76					
8	7.40	13.8	310	340	0.50	0.213	0.301	0.034	0.01	0.027	0.32	7.70	0.26	300	140	0.01	0.018	0.85	2.34	0.01	7.48	0.06	3.62					
9	7.20	13.8	310	340	0.42	0.179	0.500	0.034	0.01	0.046	0.27	7.70	0.36	300	180	0.01	0.018	0.46	1.97	0.03	6.75	0.12	3.08					
10	7.20	14.0	310	335	0.69	0.226	0.482	0.066	0.01	0.055	0.37	7.70	0.35	310	200	0.01	0.039	0.88	2.38	0.01	6.87	0.06	3.28					
11	7.20	14.2	310	320	0.37	0.188	0.351	0.046	0.01	0.052	0.33	7.60	0.34	310	230	0.01	0.036	0.49	2.34	0.01	6.68	0.06	3.30					
12	7.20	14.1	310	320	0.43	0.210	0.336	0.041	0.01	0.048	0.39	7.60	0.35	310	240	0.01	0.034	0.53	2.19	0.01	6.72	0.06	3.32					
13	7.30	13.6	310	330	0.87	0.191	0.278	0.037	0.01	0.052	0.33	7.70	0.35	310	200	0.01	0.040	0.67	2.30	0.01	5.91	0.07	3.34					
14	7.10	13.6	302	340	0.91	0.214	0.347	0.040	0.01	0.041	0.31	7.70	0.34	308	120	0.01	0.036	0.71	2.24	0.03	6.41	0.50	3.29					
15	7.20	13.9	310	326	0.82	0.210	0.341	0.041	0.01	0.052	0.33	7.70	0.31	320	110	0.01	0.040	0.61	2.19	0.02	7.11	0.05	3.31					
16	7.20	14.1	310	326	0.94	0.210	0.351	0.041	0.01	0.048	0.39	7.60	0.35	320	110	0.01	0.041	0.51	2.21	0.03	6.84	0.04	3.30					
17	7.20	14.0	310	320	0.34	0.200	0.323	0.029	0.02	0.055	0.36	7.60	0.34	310	160	0.01	0.041	0.81	2.28	0.01	6.94	0.08	3.62					
18	7.20	13.6	310	330	0.28	0.187	0.282	0.041	0.01	0.059	0.38	7.60	0.36	300	140	0.01	0.019	0.55	2.39	0.01	7.85	0.15	3.52					
19	7.10	13.7	300	350	0.57	0.180	0.360	0.045	0.01	0.058	0.41	7.70	0.38	300	140	0.01	0.034	0.83	2.29	0.01	7.78	0.07	3.46				pass	pass
20	7.20	13.3	310	340	1.36	0.202	0.274	0.058	0.01	0.043	0.36	7.70	0.32	300	120	0.01	0.014	0.74	2.33	0.01	7.04	0.02	4.18					
21	7.20	13.5	300	330	1.02	0.212	0.283	0.049	0.01	0.045	0.40	7.70	0.36	300	100	0.01	0.020	0.88	2.22	0.01	7.15	0.06	3.50					
22	7.20	13.2	320	340	0.88	0.201	0.298	0.029	0.01	0.040	0.38	7.60	0.33	300	100	0.01	0.023	0.72	2.20	0.01	6.98	0.07	3.30					
23	7.20	13.3	310	340	1.22	0.208	0.404	0.045	0.01	0.053	0.38	7.70	0.36	280	120	0.01	0.030	0.89	2.37	0.01	7.09	0.05	3.90					
24	7.20	13.2	320	340	0.44	0.187	0.324	0.042	0.01	0.050	0.36	7.80	0.32	300	100	0.01	0.010	0.75	2.48	0.01	7.29	0.05	3.58					
25	7.20	14.4	320	340	3.38	0.189	0.238	0.034	0.01	0.044	0.39	7.80	0.34	300	120	0.01	0.024	0.80	2.35	0.01	7.46	0.07	3.66					
26	7.10	14.2	310	352	0.89	0.199	0.294	0.041	0.01	0.051	0.35	7.90	0.32	320	110	0.01	0.021	0.84	2.28	0.03	6.63	0.17	2.79					
27	7.20	13.4	310	340	0.45	0.182	0.361	0.041	0.01	0.040	0.40	7.70	0.39	300	130	0.01	0.014	0.49	2.33	0.01	5.88	0.06	3.16					
28	7.20	13.9	320	348	0.51	0.174	0.322	0.039	0.01	0.051	0.35	7.80	0.32	310	110	0.01	0.017	0.63	2.21	0.02	7.54	0.05	3.04					
29	7.20	13.2	310	340	0.81	0.177	0.294	0.044	0.01	0.050	0.36	7.70	0.33	300	100	0.01	0.021	0.71	2.29	0.01	7.84	0.06	3.38					
30	7.20	12.5	320	360	0.04	0.175	0.289	0.032	0.01	0.037	0.36	7.70	0.28	310	140	0.01	0.022	0.67	2.35	0.01	7.03	0.07	3.60					
31	7.20	12.9	320	360	0.77	0.199	0.314	0.030	0.01	0.041	0.50	7.70	0.43	310	120	0.01	0.010	0.47	2.37	0.01	5.81	0.07	3.64					
Ave.	7.20	13.8	311	337	0.72	0.212	#DIV/0!	0.325	0.043	0.01	0.047	0.35	7.69	0.33	305	138	0.01	0.025	0.70	2.28	0.01	7.11	0.09	3.43	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Max	7.40	15.2	320	360	3.38	0.730	0.00	0.00	0.00	0.00	0.00	7.90	0.43	320	240	0.01	0.061	0.99	2.48	0.03	8.06	0.50	4.18	0.00	0.00	0.00	0.00	0.00
Min	7.00	12.5	300	300	0.04	0.166	0.00	0.00	0.00	0.00	0.00	7.60	0.28	280	100	0.01	0.010	0.46	1.97	0.01	5.81	0.02	2.79	0.00	0.00	0.00	0.00	0.00

Lagoon Effluent Tests			Distribution Stability Tests			Every Two Weeks			Date		
pH	Temp °C	T Chlor mg/L	pH	Temp °C	TDS mg/L	Date	Date	Date	Chloride mg/L	Sulfate mg/L	Remarks:
7.5	14	0.01	7.7	15.5	510	1/5/2023			200	46	

Physical and Chemical Tests																		Membrane Integrity												
Raw			Pre UF Membrane			Post UF Membrane			Post IEX				Finished				Post Filter													
Date	pH	Temp deg C	Alk. mg/L	Total Fe mg/L	Total Mn mg/L	Turbidity NTU	Total Turbidity	Total Soluble Mn mg/L	Total Soluble Fe mg/L	Total Turbidity	1	2	3	4	Total Alk. as CaCO3	pH	Turbidity NTU	Total Hard. mg/L	Total Fe mg/L	Total Mn mg/L	Total Fluoride mg/L	Ortho Phosphate mg/L	Free Ammonia mg/L	Free Chlorine mg/L	F	T	Distribution	Bank 1	Bank 2	Bank 3
1	7.00	13.9	310	280	0.72	0.385		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	3.40				
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	7.86	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	2.35	0.22	7.69	0.04	3.28				
5	7.10	14.2	320	340	0.43	0.268		0.336	0.082	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	0.188		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	0.021	0.56	2.15	0.11	7.60	0.05	3.40				
11	7.00	14.1	300	340	0.59	0.213		0.289	0.068	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	310	330	0.41	0.220		0.297	0.088	0.01	0.046	0.38			7.70	0.32	300	120	0.01	0.009	0.72	2.19	0.06	7.38	0.05	2.94				
13	7.10	13.2	320	310	0.51	0.265		0.346	0.123	0.01	0.075	0.34			7.70	0.33	300	110	0.01	0.014	0.61	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	0.260		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	0.264		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	0.094	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	13.7	300	360	0.73	0.277		0.361	0.091	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	0.59	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	0.281		0.326	0.084	0.01	0.020	0.36			7.60	0.32	300	110	0.01	0.018	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	0.021	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		0.290	0.087	0.01	0.500	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	0.88	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	5.82	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		0.341	0.107	0.01	0.070	0.52			7.62	0.33	302	138	0.01	0.021	0.72	2.46	0.02	7.30	0.06	3.23	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Max	7.20	15.7	340	365	3.43	0.355		0.496	0.266	0.02	0.270	0.52			7.80	0.44	320	360	0.02	0.064	0.88	4.03	0.53	8.23	0.09	3.90	0.00	0.00	0.00	0.00
Min	6.90	11.8	300	280	0.37	0.168		0.270	0.051	0.01	0.020	0.28			7.40	0.25	280	90	0.01	0.004	0.43	2.01	0.01	5.82	0.04	2.56	0.00	0.00	0.00	0.00
Lagoon Effluent Tests																		pH	Temp °C	T Chlor	Mn mg/L	Fe mg/L	TSS mg/L							
Monthly	12/5/2022																	7.5	10.4	0.01	0.197	0.27	369<4							
Date	12/19/2022																	7.4	15.8	460	280	58	49							
Date																														
Date																														
Remarks:																														

