



Monthly Operating Report

May: 2020

So. Sangamon
Water Commission
June 15th, 2020

SSWC

9199 Buckhart Rd Rochester IL 62563

TABLE OF CONTENTS

SECTION	PAGE NO.
Executive Summary.....	ES-1
1. SAFETY	1-1
1.1 Safety Training	1-1
1.2 Lost time Accidents	1-1
1.3 Safety Audit	1-1
1.4 Miscellaneous Safety.....	1-1
2. COMPLIANCE, FLOWS AND LOADINGS	2-2
2.1 Compliance	2-2
2.2 Influent flows and loadings	2-2
2.3 Effluent Concentrations	2-2
2.4 Lagoon Discharge Concentrations	2-4
3. OPERATIONS.....	3-1
3.1 Events impacting operations	3-1
3.2 Emergency & Service calls.....	3-1
3.3 Emergency Call-outs	3-1
3.4 Customer Inquiries	3-1
4. MAINTENANCE AND REPAIR.....	4-4
4.1 Preventative and predictive maintenance.....	4-4
4.2 Corrective repairs	4-4
5. PROJECT MANAGEMENT & SUPPORT.....	5-1
5.1 Staffing & Training	5-1
5.2 Corporate Support.....	5-2
5.3 Budget	5-3
6. CAPITAL PLANNING	6-1
6.1 Approved CIP Projects Current status.....	6-1
6.2 Draft Capital Improvement Plan	6-1

LIST OF TABLES

TABLE	PAGE NO.
Table 2.2 Influent Concentrations and Flow.....	2-2
Table 2.3 Finished Water Quality.....	2-2
Table 2.4 Weekly Grab Sample Analysis Results.....	2-4
Table 4.1 Budget Table.....	5-3

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 May 2020.

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 May 2020, the plant pumped 45.466 million gallons from the well field and 36.353 million gallons of finished water. This is 7.935 million gallons more than May of 2019.

The SSWC plant has been placed on Critical Review status. Systems on Critical Review will be evaluated for sufficient capacity before issuance of water main extension permits. The Critical Review is currently under review.

Operations. There was 0 emergency call-outs for the month. There was 2 customer inquiry for the month.

Maintenance and Repair. For the month of May 2020, there were 31 inspections, 3 preventative and 3 corrective maintenance activity completed.

Budget. Passed at May 18th 2020 meeting.

Capital Planning.

BOP CPU replacement

Chloramines Project

New Berlin Meter relocation.

Well Rehabilitation Project

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 May 2020.

1.3 SAFETY AUDIT

No safety audits to date.

1.4 MISCELLANEOUS SAFETY

No usable Fall Arrestors for aerator on premises

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 May. 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 45.466 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.	8.0	16.5	1.87	.650	-	365	300	1.95
Min.	7.7	15.0	.36	.164	-	318	270	.992
Avg.	7.82	16.5	.73	.276	-	353	276	1.47
Total	-	-	-	-	-	-	-	45.466

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 41.4 MG during the month with a daily average of 1.335 MG and a min/max .815/ 1.794 MG.

Table 2.3 Finished Water Quality										
	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	2.06	2.16	8.5		0.02	0.055	.92	200	282	1.91
Min.	1.19	1.28	8.3		0.01	0.003	0.51	92	260	1.15
Avg.	1.77	1.87	8.3		0.02	0.022	0.72	114	273	1.66
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2019-20

Time Period	2019-2020	2018-2019	2017-2018
June 2019-May 2020	363,233,689	388,046,424	396,493,135
Increase for the same period last year		-24.8 MG	

FINISHED WATER PUMPING HISTORY						
	2019-20	2018-19	2017-18	2016-17	2015-16	2014-15
June	33,460,303	34,040,000	39,931,402	41,541,321	31,092,539	38,462,951
July	23,742,374	41,178,722	42,164,927	35,378,396	33,123,375	38,674,894
Aug	25,018,633	35,176,238	38,760,634	35,401,490	38,109,133	33,748,543
Sept	34,234,782	34,754,000	39,896,986	36,325,215	36,546,171	29,763,075
Oct	30,769,238	30,353,482	33,506,605	34,374,820	34,783,455	28,803,052
Nov	30,877,400	30,464,000	28,617,333	30,478,309	27,217,293	28,426,579
Dec	29,703,954	31,930,000	28,808,037	32,525,530	27,788,637	28,656,869
Jan	30,073,516	28,823,375	30,556,824	30,449,215	28,510,121	30,346,721
Feb	28,797,693	28,625,431	25,617,914	27,373,232	26,095,228	26,336,077
Mar	30,339,298	31,237,000	28,217,699	30,068,363	27,851,811	28,729,919
Apr	31,542,650	28,418,249	27,110,578	29,625,797	29,292,618	29,270,184
May	34,673,848	33,045,927	33,304,196	32,120,873	33,349,391	33,371,016
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Totals	363,233,689	388,046,424	396,493,135	396,891,079	373,759,772	374,589,880
Avg	.992 MGD	1.06 MGD	1.08 MGD	1.08 MGD	1.02 MGD	1.03 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)
May 12th 2020	.12	.225	160	0.01	8.32	7.2
Minimum	.12	.225	200	0.03	8.2	4.4
Maximum	.12	.225	200	0.03	8.2	4.4
Average	.12	.225	200	0.03	8.2	4.4
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 May 2020. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

There were 0 incidents impacting plant operations for the month of May.

3.2 EMERGENCY & SERVICE CALLS

Service Calls:

- There were 0 emergency call outs for the month.

3.3 EMERGENCY CALL-OUTS

There was 0 emergency call-out for the month requiring operational personnel at the plant after normal business hours

3.4 CUSTOMER INQUIRIE

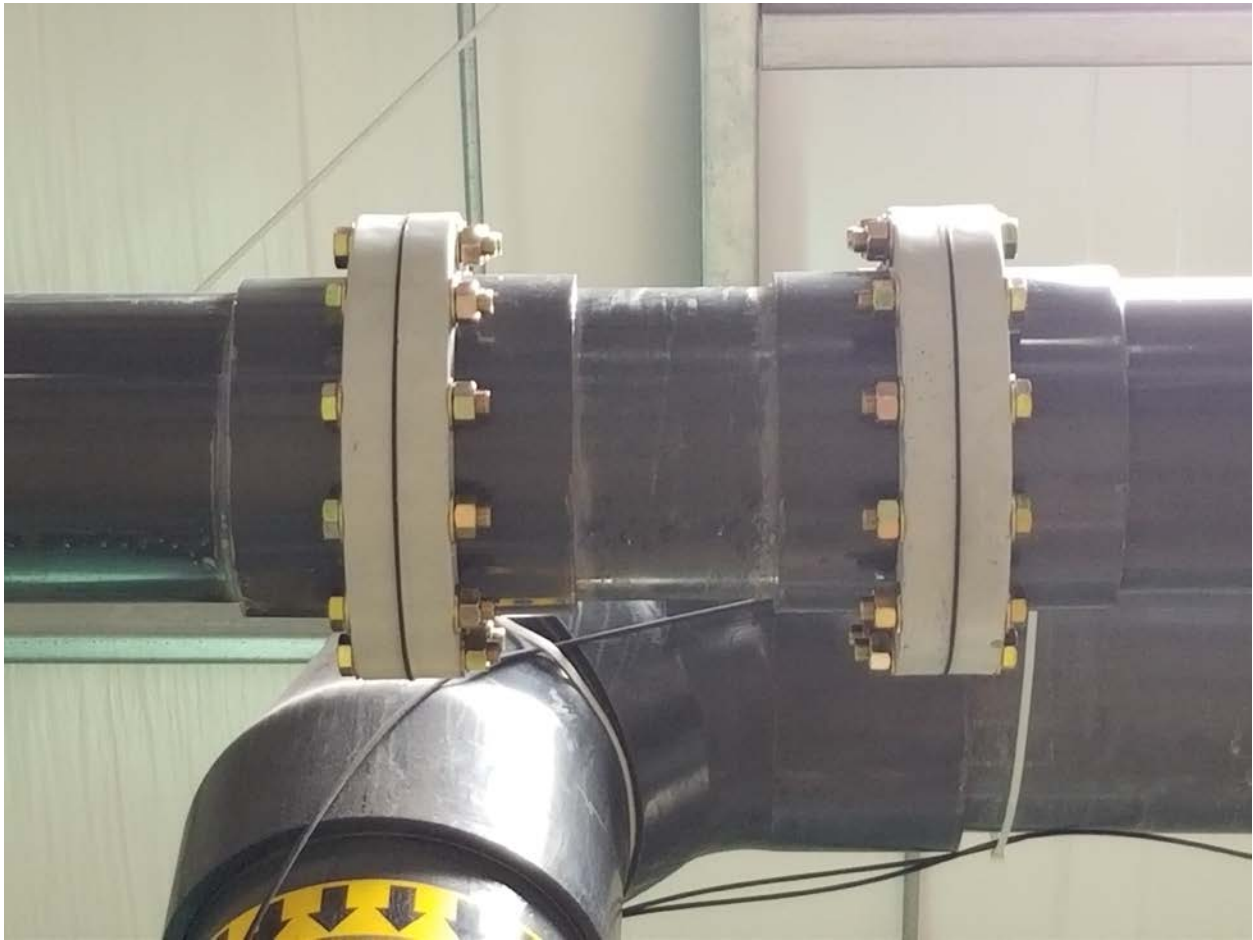
There was 2 customer inquiry.

OTHER WORK PERFORMED

Trouble shooting of new train
Trouble shooting of CIP skid and CIP procedure
Repaired chlorination system
Repaired Train 1
Inspected distribution mains
Repaired BW line
Constructed bulletin board
Consulted with new customers.
ILEPA Material Inventory List

On May 22nd Win Hyan from Henson Robinson came to SSWC plant to create a parts list.

On May 26th Win returned with a helper and repaired a leaking coupler on the backwash line by replacing it with a flanged spool. Said coupler had been leaking for quite sometime, but recently began leaking significantly more.



Constructed A new outdoor bulletin board to post important information and news updates to the public.



4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of May 2020, there were 31 inspections, 12 preventative and 3 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

Repaired Train 1

Repaired backwash line leak.

In the month of May 2 leaks in the distribution main have been Identified.

5. PROJECT MANAGEMENT & SUPPORT

5.1 STAFFING & TRAINING

- With the addition of a new 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 May 2020.

- Kevin Canham
- Stephen Bivin
- Katie Krall
- Win Hyan (Henson Robinson)
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5.3 BUDGET

Table 5.3 Operating Budget

Table 5.3 Budget Table

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget
Labor (D.L. + OH)	\$13,909.06	?	\$68,237	\$70,128	\$163,768
Utilities	\$8,306.30		\$40,750	\$36,019	\$97,800
Chemicals	\$22,421		\$110,000	\$74,593	\$264,000
Maintenance & Repair	\$13,668.62		\$67,056	\$56,429	\$160,937*
Chloride	\$13,160		\$65,800	\$58,080	\$157,920
Lab Supplies and Equipment	\$1,918.09		\$9,410	\$5,987	\$22,584
Office Supplies	\$220.14		\$1,080	\$627	\$2,592
Miscellaneous Expenses*	\$41		\$123	?	\$500
Other Operating Costs	\$1,398	?	\$6,990	\$6,107	\$16,776
Engineering Fees	\$2,500		\$7,500	\$5,950	\$30,000
Office Equipment rental	\$65		\$542	\$325	\$780
Locates	\$378	0	\$1,890	\$2,758	\$4,536
Truck	\$3,333	0	\$33,333	\$35,560	\$40,000
Total	\$81,318.21	\$37,337.12	\$377,488	\$349,805	\$962,193

*as of September 30 2019

6. CAPITAL PLANNING

6.1 APPROVED CIP PROJECTS CURRENT STATUS

Chloramine conversion project- SSWC has received repaired Chloramine analyzer from Hach. Staff has decided to push back the commissioning of the analyzer due to Covid 19 and the social distancing requirements.

New Berlin Meter master meter relocation project is commencing. Engineering and relocation plans have been finalized. Awaiting ground breaking.

Well rehabilitation project. Tentative start date is June 22nd 2020

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

BOP CPU replace is in the planning phase

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.

