

# Monthly Operating Report

May:2022



So. Sangamon  
Water Commission  
June 20th, 2022

# 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 May 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](http://www.sswc.us).

During the month of May 2022, the plant pumped 48.110 million gallons from the well field and 42.040 million gallons of finished water. This is .29 million gallons less than May 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 May 2022, there were 30 inspections, 3 preventative and 3 corrective maintenance activity completed. There was 1 repair activities performed .

**Budget.** Passed at April 18<sup>th</sup> 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 May 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 April. 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 48.110 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)
<b>Max.</b>	7.4	15.6	1.47	.225	-	380	308	1.890
<b>Min.</b>	7.1	12.9	.56	.188	-	280	280	1.300
<b>Avg.</b>	7.18	14.2	.87	.211	-	357	293	1.552
<b>Total</b>	-	-	-	-	-	-	-	48.110

### 2.3 EFFLUENT CONCENTRATIONS

The facility filtered 42.040 MG during the month with a daily average of 1.356 MG and a min/max .712/ 1.648 MG.

Table 2.3 Finished Water Quality

	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
<b>Max.</b>	.18	3.50	7.8		0.02	0.250	1.0	180	310	2.27
<b>Min.</b>	0.07	2.52	7.1		0.01	0.010	0.44	90	280	1.69
<b>Avg.</b>	0.12	3.06	7.6		0.01	0.038	0.77	124	292	1.92
<b>MCL</b>	-	-	-	-	1.00	-	4.00	-	-	-
<b>SMCL</b>	-	-	-	-	0.30	0.050	2.00	-	-	-

## Finished Water Flow Comparison for FY 2021 -22

Time Period	21-22	20-21	19-20
June-2021- May-2022	421,132,861	403,344,751	363,233,689
Increase for the same period last year	17.8 MG	40.1 MG	

FINISHED WATER PUMPING HISTORY						
	21-22	20-21	19-20	18-19	17-18	16-17
June	37,616,256	17,414,377	33,460,303	34,040,000	39,931,402	41,541,321
July	39,001,640	44,237,066	23,742,374	41,178,722	42,164,927	35,378,396
Aug	39,953,900	39,638,063	25,018,633	35,176,238	38,760,634	35,401,490
Sept	38,935,839	38,674,095	34,234,782	34,754,000	39,896,986	36,325,215
Oct	34,918,955	34,597,739	30,769,238	30,353,482	33,506,605	4,374,8320
Nov	31,181,005	32,325,040	30,877,400	30,464,000	28,617,333	30,478,309
Dec	31,391,459	31,582,311	29,703,954	31,930,000	28,808,037	32,525,530
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
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Totals	421,132,861	403,344,751	363,233,689	388,046,424	396,493,135	405,036,061
Avg	1.15 MGD	1.10 MGD	.995 MGD	1.06 MGD	1.08 MGD	1.11 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 <sup>2</sup> (mg/l)	pH (S.U.)	TSS (mg/l)
May,27th 2022	.28	.129	590	.05	7.8	<4
Minimum	.28	.129	590	.05	7.8	<4
Maximum	.28	.129	590	.05	7.8	<4
Average	.28	.129	590	.05	7.8	<4
<b>Monthly Avg Limit</b>	<b>2.000</b>	<b>1.000</b>				<b>15</b>
<b>Daily Limit</b>	<b>4.000</b>	<b>2.000</b>	<b>500</b>	<b>0.05</b>	<b>6.0-9.0</b>	<b>30</b>

The Chloride sample for the month, performed by the Springfield Metropolitan Sanitary District, was below 30,000 mg/l for the month of May 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  
Repaired ion exchange valve and actuator  
Repair of air compressors  
Customer service  
Construction of and commissioning of train #2  
Consulted with MECO and Brotke concerning well #4  
Grouted well#4  
Pour concrete for washout in well field



New train #2



New Train #2



New drain connection for train #2



Grout in well #4 subsidence



Washout in well that we repaired with left over well grout.

## **4. MAINTENANCE AND REPAIR**

### **4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE**

For the month of May 2022, there were 30 inspections, 3 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

Purged air control system

Air Compressor service

Repair of train #3

Replaced old filter cartridges on train #3 with newer cartridges from train #2



## 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 May 2022.

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



### **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 has initiated the planning phase of the Chatham Emergency interconnect. Construction permit has been approved and received. Construction has been postponed.

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

### **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 been ordered.
3. BOP CPU upgrade has been completed
4. Meter Project progressing, meters scheduled to arrive on a future date.

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES**

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT  
South Sangamon Water Commission - IL 1670080  
May 2022

## South Sangamon Water Commission

## May 2022 Monthly Operating Report

South Sangamon Water Commission :: 1670080

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