



# Monthly Operating Report

SEPTEMBER: 2019

So. Sangamon  
Water Commission  
October 21st, 2019

# SSWC

9199 Buckhart Rd Ochester 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 2019.

**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 September 2019, the plant pumped 44.831 million gallons from the well field and 35.744 million gallons of finished water. This is 1.1 million gallons more than September of 2018.

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.

**Operations.** There were 0 emergency call-outs for the month. There were 2 customer inquiries for the month.

**Maintenance and Repair.** For the month of September 2019, there were 30 inspections, 9 preventative and 3 corrective maintenance activity completed.

**Budget.** Passed at May 20<sup>th</sup> meeting.

**Capital Planning.** Pigging Project

Chloramines Project

Toray filter Installation

New Berlin Meter relocation.

# 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 2019.

## 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 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 44.831 MGs. 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>	7.70	18.5	2.39	.236	-	380	300	1.748
<b>Min.</b>	7.7.30	15.8	.09	.198	-	320	265	1.233
<b>Avg.</b>	7.50	17.0	.87	.220	-	356	282	1.494
<b>Total</b>	-	-	-	-	-	-	-	44.831

### 2.3 EFFLUENT CONCENTRATIONS

The facility filtered 40.529 MG during the month with a daily average of 1.351 MG and a min/max 1.134/ 1.586 MG.

Table 2.3 Finished Water Quality										
	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
<b>Max.</b>	1.9	2.17	8.0		0.06	0.570	1.03	350	300	2.20
<b>Min.</b>	1.3	1.41	7.8		0.01	0.005	0.39	100	260	1.54
<b>Avg.</b>	1.6	1.7	7.9		0.02	0.079	0.75	127	282	1.75
<b>MCL</b>	-	-	-	-	1.00	-	4.00	-	-	-
<b>SMCL</b>	-	-	-	-	0.30	0.050	2.00	-	-	-

## Finished Water Flow Comparison for FY 2018

Time Period	2018-2019	2017-2018	2016-2017
Sept-August 2019	359,872,774	380,888,146	407,770,088
Increase for the same period last year		-10.158 MG	

FINISHED WATER PUMPING HISTORY						
	2018-19	2017-18	2016-17	2015-16	2014-15	2013-14
Oct	30,353,482	33,506,605	34,374,820	34,783,455	28,803,052	33,916,594
Nov	30,464,000	28,617,333	30,478,309	27,217,293	28,426,579	31,615,459
Dec	31,930,000	28,808,037	32,525,530	27,788,637	28,656,869	32,697,551
Jan	28,823,375	30,556,824	30,449,215	28,510,121	30,346,721	32,499,427
Feb	28,625,431	25,617,914	27,373,232	26,095,228	26,336,077	28,745,378
March	31,237,000	28,217,699	30,068,363	27,851,811	28,729,919	31,217,486
April	28,418,249	27,110,578	29,625,797	29,292,618	29,270,184	31,690,073
May	33,045,927	33,304,196	32,120,873	33,349,391	33,371,016	31,157,411
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
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Totals	359,353,556	380,888,146	407,770,088	383,534,976	372,811,635	394,188,842
Avg	1.191MGD	1.04 MGD	1.12 MGD	1.05 MGD	1.02 MGD	1.08 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)
September 17 2019	.12	.652	310	.04	7.95	<4.0
Minimum	.12	.652	310	.04	7.95	<4.0
Maximum	.12	.652	310	.04	7.95	<4.0
Average	.12	.652	310	.04	7.95	<4.0
<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 of September 2019, performed by the Springfield Metropolitan Sanitary District, was below 30,000 mg/l for the month . The limit for chloride discharge to the sanitary district is 30,000 mg/L.



## 3. OPERATIONS

### 3.1 EVENTS IMPACTING OPERATIONS

There were no incidents impacting plant operations for the month of September.

### 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

#### OTHER WORK PERFORMED

Site meeting at revised New berlin master meter site. In attendance: Max Middendorf(MECO), Stephen Bivin(SSWC), Kevin Canham(SSWC),



Revised site for new Berlin master meter





## 4. MAINTENANCE AND REPAIR

### 4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of September 2019, there were 30 inspections, 9 preventative and 12 corrective maintenance activity completed.

### 4.2 CORRECTIVE REPAIR

Pulling and cleaning pre filters on all 3 filter trains on multiple occasions

## 5. PROJECT MANAGEMENT & SUPPORT

### 5.1 STAFFING & TRAINING

- With the addition of a new staff member training has been continuous and ongoing.

### 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 2019.

- Kevin Canham
- Stephen Bivin
- Dave Wilson (Westech)
- Katie Krall
- Keslee Carson



## 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	?	\$40,942	\$39,396	\$163,768
Utilities	\$8,306.30		\$24,450	\$23,514	\$97,800
Chemicals	\$22,421		\$66,000	\$44,606	\$264,000
Maintenance & Repair	\$13,668.62		\$41,005.86		\$160,937*
Chloride	\$13,160		\$39,480	\$36,5603	\$157,920
Lab Supplies and Equipment	\$1,918.09		\$5646	\$3404	\$22,584
Office Supplies	\$220.14		\$648	\$321	\$2,592
Miscellaneous Expenses*	\$41		\$123	?	\$500
Other Operating Costs	\$1398	?	\$4194	\$3908	\$16,776
Engineering Fees	\$2,500		<b>\$7500</b>	<b>\$5950</b>	\$30,000
Office Equipment rental	\$65		\$195	\$325	\$780
Locates	\$378	0	\$1134	\$378	\$4536
Truck	\$3,333	0	\$10,000	\$35,560	\$40,000
<b>Total</b>	<b>\$81,318.21</b>	<b>\$37337.12</b>	<b>\$199189</b>	<b>\$193922</b>	<b>\$962193</b>



## 6. CAPITAL PLANNING

### 6.1 APPROVED CIP PROJECTS CURRENT STATUS

Toray filter project ; Installation of the filter train began on July 29<sup>th</sup> and carried on into September

Chlormine conversion project- all construction is complete. SCADA programming needs fine tuning

New Berlin Meter master meter relocation project is commencing. Awaiting new engineering report..

### 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.







