



Monthly Operating Report

January 2017

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So. Sangamon

February 21, 2017

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

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EXECUTIVE SUMMARY

Safety. Safety is the number one priority at Woodard and Curran. We continue to provide monthly training for employees at the plant, provide weekly safety updates and safety videos are assigned to all employees. The monthly training safety topic for January was “Blood Borne Pathogens and Personal Protective Equipment”. There were no lost time accidents in the month. Following the two Safety Audits completed at the plant, there were 45 items needing to be address. Approximately 45 percent of these items have been completed.

Compliance. The finished water quality was within regulatory limits and all reporting and sampling requirements were met for the month.

2016 Nitrate Test. Attachment B of this report contains a Public Notification letter from the IEPA regarding the 2016 Nitrate test. The test was pulled and delivered to the laboratory as required. The laboratory performed the Nitrate test and sent the results to the plant, but failed to report the Nitrate test results to the IEPA. As a result, the plant was considered out of compliance. Once we forwarded the results to the IEPA, the plant was considered to be back in compliance and the Public Notification requirement was rescinded. However, the violation will still need to appear in the 2016 Consumer Confidence Report.

MCPE Implementation Update. The IEPA requested an update on the MCPE Implementation Plan. Of the 13 original recommendations, 5, 6, 7, 9, 10 and 13 remain uncompleted. Attachment C of this report contains the update to IEPA. The letter requests this be the final update for all but two (2) items.

Operations. There were no emergency call-outs for the month. There were two customer inquiries.

Alarm Dial Out on the SCADA System. On Thursday, January 5, 2017, we discovered the Alarm Dial Out on the SCADA system was not functioning. After further investigation, we found that AT&T was no longer supporting 2 GB modems as of the first of the year. A new modem was purchased on Friday, January 6 and shipped to the plant. The new modem arrived on Saturday, January 7, 2017. Unfortunately, the new modem required activation numbers that were not available until Monday morning. Once the activation numbers were received, the modem was activated and we began to receive alarms again. A flaw in the programming required the activation process to be repeated if the system went off line. Woodard and Curran SCADA staff worked with both AT&T and the manufacturers of the modem to resolve this issue. The system has been tested and rebooted and is working correctly.

JULIE. On January 20, 2017, we contacted JULIE regarding the size of the boundary adjacent to SSWC facilities. The boundaries were set at 300-feet on either side of the transmission line. The result was additional JULIES being performed that were deemed unnecessary. The boundaries have now been relaxed to 150-feet on either side of the transmission line.

Maintenance and Repair. For the month of January 2017 there were 5 inspections, 7 preventative and 0 corrective maintenance activities completed.

Budget. Through January 27, 2017 we are \$60,015 over budget.

Capital Planning. Woodard and Curran is working with Mecor Engineering to update and prioritize the 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. SAFETY

1.1 SAFETY TRAINING

Woodard and Curran continues to provide safety training for personnel at the plant. This is accomplished by requiring daily safety meetings, monthly safety meetings, and safety videos are assigned to all employees and are required to be completed. The January 2017 safety training topic were “Blood Borne Pathogens” and “Personal Protective Equipment”.

1.2 LOST TIME ACCIDENTS

There were no lost time accidents in the month of January 2017.

1.3 SAFETY AUDIT

Since Woodard and Curran assumed operational responsibility for the SSWC plant, two safety audits have been completed. The first audit was conducted in May 2015 and identified 89 items needing to be addressed. Approximately 86 percent of the items identified have been addressed. The second audit occurred in November 2016 which identified additional items.

The findings for these two audits have now been combined to produce a list of 42 items needing to be addressed. A safety audit conference call with Shannon Eyler was held on January 25, 2017. To date, 45 percent of the items have been addressed. Remaining items are being addressed as time permits and as funding becomes available.

1.4 MISCELLANEOUS SAFETY

A gentleman from Cincinnati Insurance Company was at the plant on January 24, 2017 to perform an annual inspection and take pictures.

2. COMPLIANCE, FLOWS AND LOADINGS

2.1 COMPLIANCE

The finished water quality was within regulatory limits and all reporting and sampling requirements were met for January. A copy of the Operations Report to the Illinois Environmental Protection Agency (IEPA) is included in Attachment A of this report

2.2 INFLUENT FLOWS AND LOADINGS

The total gallons pumped from the well field was 38.035 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								
Day	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Well Flow Gals (k)
Max.	7.40	14.0	2.34	0.231	-	380	294	1.513
Min.	7.23	12.8	0.54	0.198	-	360	282	0.939
Avg.	7.32	13.4	1.03	0.213	-	373	289	1.227
Total	-	-	-	-	-	-	-	38.035

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 33.777 MG during the month with a daily average of 1.090 MG and a min/max of 0.753/1.363 MG.

Table 2.3 Finished Water Quality										
Date	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	1.6	1.8	7.72	14.1	0.01	0.016	0.94	158	282	1.07
Min.	0.9	1.1	7.50	12.6	0.01	0.009	0.66	110	260	0.52
Avg.	1.2	1.4	7.63	13.4	0.01	0.012	0.81	119	273	0.92
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

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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)
01/10/2017	1.330	1.300	355	0.05	7.73	0.00
01/26/2017	0.607	0.220	-	0.01	7.62	
Minimum	-	-	-	-	-	-
Maximum	-	-	-	-	-	-
Average	0.968	0.760	-	0.03	7.68	0.00
Monthly Avg Limit	2.000	1.00	-	-	-	15
Daily Limit	4.000	2.000	500	0.05	6.0-9.0	30

The Chloride sample for the month of January 2017, performed by the Springfield Metropolitan Sanitary District, was 16,100 mg/L. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

The new hydro-pneumatic storage tank arrived at the plant on January 5, 2017. The pictures below show the contractor moving the tank to its permanent location near the west overhead door.



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3.2 EMERGENCY & SERVICE CALLS

Service Calls:

- Henson Robinson was on-site January 24, 2017 to work on Brine Pump #2

Emergency Call-Outs

- There were no emergency call-outs for the month of January.

3.3 CUSTOMER INQUIRIES

There were two (2) customer inquiries for the month of January:

- A FOIA request for July and August 2015 IEPA Monthly Operations Report
- Water usage at the greenhouse located on New City Road

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of January 2017 there were 5 inspections, 7 preventative and 0 predictive maintenance activities completed.

4.2 CORRECTIVE REPAIRS

- Well 4 shut down late in the afternoon on January 2, 2017. UPS went dead.
- Well 3 shut down overnight due to being under temperature on January 6, 2017. The overnight low was 2 degrees that night. The breaker on the heater for the VFD had kicked out.
- The breaker kicked out on Bank #2 of the WesTech System around 6:15 am on January 6, 2017. Keith was on his way to the plant when the alarm occurred so no call out was necessary. Please note we are working with the Woodard and Curran SCADA group and WesTech to determine why the system continues to perform the phase underway when the breaker kicked out until the problem is corrected.

5. PROJECT MANAGEMENT & SUPPORT

5.1 STAFFING & TRAINING

- Woodard and Curran continues to train and provide staffing to the plant as needed.
- Woodard and Curran IT staff are working with plant personnel on Hach Wims. Hach Wims is the program utilized by Woodard and Curran for developing IEPA Monthly Operating Reports and storage of test data. We are working through the issues discovered with the reporting earlier in the year as time allows.

5.2 CORPORATE SUPPORT

The following individuals, either on-site or remotely, provided assistance in operation and/or maintenance of the plant in January 2017.

- | | |
|-----------------|--------------------|
| • Marc Thomas | • Shannon Eyler |
| • Joe Hurley | • Celina McManus |
| • Ray Giguere | • Andy Fitzpatrick |
| • Wendy Foreman | |

5.3 BUDGET

Table 5.3 below is a breakdown of the current budget as of January 27, 2017.

Table 5.3 Budget Table

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	Over (under)	% of budget
Labor (D.L. + OH)	\$22,926	\$19,603	\$206,336	\$228,486	\$275,115	\$22,150	83%
Utilities	\$8,113	\$9,506	\$73,013	\$74,644	\$97,350	\$1,632	77%
Chemicals	\$14,875	\$14,993	\$133,875	\$137,246	\$178,500	\$3,371	77%
Maintenance & Repair	\$7,925	\$3,879	\$71,325	\$91,818	\$95,100	\$20,493	97%
Chloride	\$11,688	\$12,456	\$105,195	\$114,542	\$140,260	\$9,347	82%
Lab Supplies and Equipment	\$1,946	\$372	\$17,516	\$15,631	\$23,355	(\$1,885)	67%
Office Supplies	\$267	\$1	\$2,400	\$2,408	\$3,200	\$8	75%
Miscellaneous Expenses	\$1,243	\$461	\$11,186	\$11,708	\$14,914	\$523	79%
Other Operating Costs	\$339	\$1,337	\$3,054	\$1,976	\$4,072	(\$1,079)	49%
Subtotal of Costs for Contract Year 2	\$69,322	\$62,608	\$623,900	\$678,459	\$831,866	\$54,559	82%
Fixed Fee for Contract Year 2	\$6,932	\$6,932	\$62,390	\$67,846	\$83,187	\$5,456	82%
Year One Transition	\$1,366	\$1,366	\$12,292	\$12,292	\$16,389	\$0	75%
Total	\$77,620	\$70,906	\$698,582	\$758,596	\$931,442	\$60,015	81%

6. CAPITAL PLANNING

6.1 APPROVED CIP PROJECTS CURRENT STATUS

Construction for the Hydro-Pneumatic Storage Tank is complete. Bac-T samples have been taken and passed. It is anticipated that commissioning of the tank and training for plant personnel will take place in early February. Once completed, the tank can go on-line and the temporary tank can be removed.

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.

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		Hours Read	Filter Flow (M gal)	Water Treated (M gal)	Plant Water (M gal)	Chlorine Used (lbs)	Fluoride Used (lbs)	AmT Used (lbs)	Calc mg/L	AmT Used (lbs)	Calc mg/L	NaOH Used (lbs)	AmT Used (lbs)	Calc mg/L	Water Softened Gal. (M gal)	Water Bypassed Gal. (M gal)	First cap volume from iron into product regeneration hours (includes backwash)	Soft Used lbs.	Washed Water Gal.	In mg/L IEX 1 IEX 2 IEX 3 IEX 4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1	7:00	13.3	0.919	1.222	0.013	150.0	2.45	14.0	0.45	19.0	0.62	17.13	2.23	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0



FLUORIDATION
Type of Fluoride Used _____
Hydrofluosilicic Acid _____ %F
Sodium Fluoride _____ %F
Other _____
Type of Test Instrument Used: _____

Illinois Environmental Protection Agency

1021 North Grand Avenue East, P.O. Box 19276, Springfield, IL 62794-9276
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601
Bruce Rauner, Governor Alec Messina, Acting Director IEPA

217-785-0561

January 11, 2017

MARC THOMAS
1520 SOUTH FIFTH STREET
SUITE 306
ST. CHARLES, MO 63303

Re: IL1670080, SOUTH SANGAMON WATER COMMISSION - Public Notice Requirement

Dear Water Supply Official:

According to our records, your water system is required to issue public notice due to the violation(s) identified on page 3 of this letter. Within 10 days of completing all public notification requirements, you **MUST** complete the "Public Notification Certification and Self-Assessment Form" (page 2 of this letter) and return to: Illinois EPA, Bureau of Water, CAS #19, P.O. Box 19276, Springfield, Illinois 62794-9276. In addition to the certification and self-assessment form, also include a representative copy of each type of notice distributed, published, posted, and/or made available to the persons served by the water supply and to the media (e.g. newspaper article, press release to TV/radio, mail notices, etc.).

You can download a public notification template and customize at the following web site:
<http://www.epa.illinois.gov/topics/forms/water-forms/drinking-water-compliance/index/>

If you have collected a sample(s) for this compliance period, please contact your laboratory for a copy of the sample result(s). Please submit a copy of the results along with a copy of this letter to this office. Once results are received and if sample

Sincerely,



Jeff Long
Drinking Water Compliance Unit
Bureau of Water

cc DANIEL L HELD

Illinois Environmental Protection Agency

1021 North Grand Avenue East, P.O. Box 19276, Springfield, IL 62794-9276
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601
Bruce Rauner, Governor Alec Messina, Acting Director IEPA

Under certain situations, i.e., acute violations, immediate consultation with the Illinois EPA Regional Field Operations Staff was required at the time. If this is applicable, list who and date of contact.

Contacted: _____ (IEPA contact name) on _____ (date)

Method of Distribution

Check all that is applicable

Date Issued

☐ Direct mailed to each paying customer.

☐ Distributed using a circular/shopper/newsletter that is sent to each bill paying customer via direct mail (free of charge)

List Newspaper Name Here: _____

☐ PN was Hand Delivered to each bill paying consumer

Signature of Owner, Administrative Contact, or Responsible Operator in Charge

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

I _____ (print name), hereby certify that the public water system indicated on page 1 hereby affirms that public notice has been provided to consumers in accordance with the delivery, content, and format requirements and deadlines in the Illinois Environmental Protection Agency's Primary Drinking Water Standards found Part 611 SubPart V: Public Notification of Drinking Water Violations.

Signature _____ Date _____

Title _____ Telephone (____) _____

This Agency is authorized to require this information under 415 ILCS 5/17.5. Failure to disclose this information may result in a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This has been approved by the Forms Management Center.

IL532-2626

PWS266 Revised (3/11)

Public Notification Must be Issued for the Following Violation(s)

<u>Violation Description</u>	<u>Contaminant(s)</u>	<u>Level Found</u>	<u>Compliance Period</u>	<u>PN Tier</u>	<u>PLID</u>
Monitoring	NITRATE	N/A	1/1/2016 - 12/31/2016	3	90248

Samples Required: 1 Received: 0



Attachment B

Illinois Environmental Protection Agency

1021 North Grand Avenue East, P.O. Box 19276, Springfield, IL 62794-9276
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601
Bruce Rauner, Governor Alec Messina, Acting Director IEPA

217-785-0561

January 18, 2017

MARC THOMAS
1520 SOUTH FIFTH STREET
SUITE 306
ST. CHARLES, MO 63303

Re: IL1670080, SOUTH SANGAMON WATER COMMISSION - Public Notice Waiver

Dear Water Supply Official:

Since the result(s) and/or reports have now been received for the violation specified below, the PUBLIC NOTICE requirement has been waived and is no longer required to be issued. Please note that since the sample result data was received beyond the 10th day from the end of the monitoring period, the monitoring violation will remain on record. However, since results have now been received, the water system has been returned to compliance for this violation. No further action is needed.

<u>Violation Description</u>	<u>Contaminant(s)</u>	<u>Compliance Period</u>
Monitoring	NITRATE	1/1/2016 - 12/31/2016

Should you have any questions, please free to call me at 217-785-0561.

Sincerely,

Jeri Long
Drinking Water Compliance Unit
Compliance Assurance Section
Bureau of Water

cc: DANIEL L HELD



Attachment B

Prairie Analytical Systems, Inc.

Date: 10/3/2016

LABORATORY RESULTS

INVOICE # 1004373

Client: South Sangamon Water Commission

Project: SSWC

Lab Order: 160555

Client Sample ID: Tap 01

Lab ID: 160555-01

Collection Date: 9/21/16 9:30

Matrix: Water

Analyte	Result	Unit	Qval	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Anions by Ion Chromatography									
*Nitrate (as N)	0.382	0.250		mg/L	10	9/21/16 16:00	9/22/16 3:54	EPA300.0	JLK

Page 2 of 4



1210 Capital Airport Drive
Springfield, Illinois 62707
Phone: 217-753-1148
Fax: 217-753-1152
www.prairieanalytical.com

January 28, 2017

Dan Held
Woodard & Curran
South Sangamon Water Commission
9199 Buckhard Rd
Rochester, IL 62563

RE: Nitrate Analysis and Compliance Reporting

Dear Dan,

I sincerely apologize for the reporting violation incurred because we did not forward nitrate results to the IEPA for 2016. Unfortunately, I was not aware that the sample was for compliance purposes. Additionally, I receive pre-compliance reports from the IEPA with data that is missing for various permit holders. However, I never saw a report that included nitrate for your facility.

To preempt similar mistakes in the future as we discussed I emailed you special forms/chains of custody (CoCs) that should be used for compliance samples. If there is an instance for which these forms are inadequate or incomplete feel free to contact me and I will be happy to modify a form to suit your purposes. If this is not feasible, please make a note on the CoC that the data needs to be sent to an IEPA compliance officer.

Please contact me with any questions.

Yours truly,



Kristen Potter

South Sangamon Water Commission

Treatment Plant
9199 Buckhart Road
Rochester, Illinois 62563
(217) 381-2206

January 9, 2017

Mr. W. David McMillan, P.G.
Manager, Division of Public Water Supplies
Bureau of Water
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Re: South Sangamon Water Commission. IL 1670080
MCPE Implementation Plan

Dear Mr. McMillan:

As requested in your letter of August 24, 2016, the South Sangamon Water Commission (SSWC) is providing you with an update on the Modified Comprehensive Plant Evaluation (MCPE) Implementation Plan. You may recall Items 1, 2, 3, 4, 7, 11 and 12 are completed. This update will address the current status of Items 5, 6, 8, 9, 10 and 13.

Item 5 – Monitoring of “Water Stability”- Continuous monitoring of water stability should be instituted in consultation with IEPA. Additional investigations should be undertaken to hopefully identify the cause of corroded plumbing fixtures.

Six (6) sets of RTW model samples were pulled between July 5, 2016 and September 12, 2016 and the SSWC and Woodard & Curran met with IEPA to review the results. Based on the meeting it was determined the RTX model samples will be conducted on a monthly basis and the results will be included in the monthly operations report submitted to IEPA. Based on the model results, the finished water at the Chatham Reservoir has an average Langelier Index value of -0.2. The target range for the Langelier Index is between 1.0 and -1.0. The results demonstrate the water leaving the treatment plant is well within the target values and is not highly corrosive.

Unfortunately, the village of Chatham was unable to complete a comprehensive uni-directional Flushing Program before the start of winter. The plan moving forward is to increase the phosphate levels in the distribution system and allow Chatham to complete its uni-directional Flushing Program this spring.

Please be aware this group tentatively plans to meet quarterly to discuss any issues related to water. Representatives from each of the groups are responsible for dispersing or providing information to their constituents as it becomes available.

Mr. W. David McMillan
January 9, 2017
Page 2 of 3

Monitoring water stability, monitoring of the water quality, and reviewing corrosion coupon results are routine practices. As a result of the MCPE, Chatham has now established a comprehensive uni-directional Flushing Program. As stated above, the Special Exemption Permit for the treatment plant now requires RTW model samples be pulled on a monthly basis and the results be included on the monthly Operations Report. In addition, the Commission is working directly with the village of Chatham and its engineering firm on water stability, future growth, and other water issues. This being the case, the Commission sees no real value to a semi-annual update of this item and respectfully request this item be considered complete.

Item 6 – Phosphate Blend and Corrosion Program - It is recommended that SSWC and the Village of Chatham and New Berlin jointly determine who is to perform orthophosphate residual monitoring in each system, and results need to be communicated between SSWC and each Village.

The village of Chatham and their engineering firm Crawford, Murphy and Tilly, the South Sangamon Water Commission and their engineering firm Mecco Engineering, and the plant Operations group Woodard and Curran met on December 21, 2016 to discuss the findings of the RTW study and what if any improvements could be made. The group's consensus was to increase the feed rate to achieve a 1.2 mg/L residual of Phosphate in the distribution system. This recommendation requires approval of the water plant commissioners for budgetary reasons. Assuming approval, the Phosphate levels will be increased, additional testing results will be obtained and the results analyzed.

In addition, the SSWC and Woodard & Curran have met with Water Solutions Unlimited (phosphate supplier) on several occasions to discuss the quarterly corrosive coupon results and semi-annual lead and copper sampling results. The purpose of the meetings are to ensure the proper chemical program and feed rates are being utilized. The results are shared with the Village of Chatham, Village of New Berlin, and public through routine monthly reports.

Based on the response received from WSU, we believe it's unnecessary to carry a 10 mg/L chlorine residual in the phosphate fed at the plant. We consider Item 6 to be complete.

Item 7 – Additional Chloride Monitoring. We met with Mr. Dave Cook from your office on October 21, 2016 regarding this issue. Information was presented on Chloride levels leaving the Ion Exchange units as well as information from the manufacturer of the units indicating the results we were receiving are typical. All four (4) units were checked and chloride levels were not found to be excessive. Mr. Cook stated at the meeting that testing could be discontinued. We consider Item 8 to be complete.

Item 9 – Fluoridation. As part of a larger project, Peristaltic pumps previously used to pump Chlorine have been utilized to pump Fluoride. Peristaltic pumps are less susceptible to air lock and the new pump is more appropriately sized. MECO Engineering submitted a

Mr. W. David McMillan
January 9, 2017
Page 3 of 3

permit application to IEPA to utilize these pumps, the permit was granted, and the pumps have been installed. Results have been favorable to this point. We consider this item to be complete.

Item 10 – Administrative and Financial Support of Operations. The commission contracted Curry and Associates to perform a rate study. The purpose of the study is two-fold; to determine if the current water rate is appropriate, and what the rate needs to address future growth in the Village of Chatham and SSWC, regulations, system improvements, and normal wear and tear. Based on the findings of the study, the commission will act accordingly to assure the administrative and financial support needed for Operations will be acquired.

Item 13 – Administrative/Technical Support. One element of the overall rate study is the plant management contract with Woodard and Curran. While the responsibility for staffing of the plant and technical support for the operators falls with Woodard and Curran, the ultimate responsibility lies with the Commission. Since Woodard and Curran assumed operational responsibility for the plant in May of 2015, Manganese levels leaving the plant have been cut in half. Woodard and Curran has assumed responsibility for the distribution system consisting of nearly 25 miles of water main, dozens of hydrants, mainline and air release valves. Many hours of overtime have been incurred while dealing with the MCPE, the SEP, the Engineering Evaluation of August 2015, and FOIA requests. Decisions that will be required as part of the rate study under way by Curry and Associates could have a significant impact on administrative and technical support needs at the plant. We will be evaluating this item as we move forward and would be happy to update you on this item at your request.

Thank you once again for the opportunity to work with the Illinois Environmental Protection Agency on this matter. Please feel free to contact me or Mr. Dan Held, Project Manager for Woodard and Curran and the Responsible Operator In Charge if you are in need of additional information.

Sincerely,

Joel Sander, Commissioner and Chairman
South Sangamon Water Commission

cc: Patrick McCarthy
Lee Bloome
Craig Hall

bcc: Shane Hill
Dustin Patterson
Bill Brown
Jim Michael

Max Middendorf
Marc Thomas
Dan Held
Keith Sommers