



# Monthly Operating Report

April 2016



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So. Sangamon

May 17, 2016

[woodardcurran.com](http://woodardcurran.com)  
COMMITMENT & INTEGRITY DRIVE RESULTS

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## EXECUTIVE SUMMARY

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. There were no lost time accidents in the month of April. Laura Bonk, Joanna Wallace's successor, continues to monitor the progress of the Safety Audit from Portland, Maine. Approximately 80 percent of the items identified in the safety audit performed in May 2015 have been completed.

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

We continue to experience a slight exceedance of the maximum allowable Chlorine residual allowed by the NPDES discharge permit. The construction permit for this project was received from the Illinois EPA on April 27, 2016. Total cost of the project is estimated to be \$43,000.

The plant produced 29.4 million gallons of finished water for the month of April.

For the month of April 2016, there were 3 inspections, 8 preventative and 1 corrective maintenance activities completed. There were two alarms that required personnel at the plant after normal operating hours. There were no customer inquiries for the month.

After 12 months, financial summaries indicate costs are \$28,628 under budget for the year to date.

On March 28, 2016, work began on the Comprehensive Performance Evaluation (CPE). Mike and Andy Curry from Curran and Associates along with John Bartolomucci from the Illinois EPA and Shane Hill from the village of Chatham make-up the committee performing the CPE. The CPE Committee made preliminary results of their findings available to the water plant on March 30, 2016. The committee will make formal recommendations to the Illinois EPA at a later date. Once received, the Illinois EPA will formally contact the SSWC with their required and recommendations changes. It is anticipated the formal letter from the Illinois EPA will arrive in the near future.

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, weekly safety updates are emailed to the plant and safety videos are assigned to all employees and are required to be completed.

### **1.2 LOST TIME ACCIDENTS**

There were no lost time accidents in the month of April, 2016.

### **1.3 SAFETY AUDIT**

The next conference call regarding the Safety Audit has not been scheduled as of this date. Ms. Laura Bonk was on-site in early April to evaluate the remaining safety audit items. To date, approximately 80 percent of the items identified have been addressed.

### **1.4 MISCELLANEOUS SAFETY**

There were no miscellaneous safety items for the month of April 2016.

## 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 April.

Water Solutions Unlimited completed corrosion control testing. According to Troy Mott with Water Solutions Unlimited, the corrosion rates for steel were very low and the copper results were pretty low as well. To put the SSWC results in perspective, corrosion rates of around 1 mil per year are normal. A copy of this report is included at the end of this document as Attachment A.

We continue to experience a slight exceedance of the maximum allowable Chlorine residual allowed by the NPDES discharge permit. The construction permit for this project was received on April 27, 2016. The estimated cost for the project is \$43,000.

On February 22, 2016, the Illinois Environmental Protection Agency sent a letter to the South Sangamon Water Commission directing them to conduct a Composite Correction Program (CCP). The CCP is requested in light of ongoing consumer concerns expressed by residents within the Chatham community water supply distribution system. The CCP will be performed by a third-party contractor, Curry and Associates, on behalf of the commission. A CCP consists of two elements, a Comprehensive Performance Evaluation (CPE) and a Comprehensive Technical Assistance (CTA):

- The CPE is a thorough review and analysis of the Commission's plant, specifically as to the plant's performance-based capabilities and associated administrative, operation and maintenance practices.
- The CTA is the performance improvement phase that will be implemented if the CPE results indicate improved performance potential.

The CPE is anticipated to take 30 days to complete. On March 28, 2016, work began on the CPE. Mike and Andy Curry from Curran and Associates along with John Bartolomucci from the Illinois EPA and Shane Hill from the village of Chatham make-up the committee performing the CPE. The CPE Committee made preliminary results of their findings for the water plant available on March 30, 2016.

The committee has made formal recommendations to the Illinois EPA. It is anticipated that the formal letter from the Illinois EPA will arrive in the near future. The SSWC is reserving the right to comment once they've heard from the Illinois EPA.

The Consumer Confidence Report for 2015 has been completed and is ready to be disbursed to the satellite water facilities and the general public. The report will be posted the website for those who would like a copy.

## 2.2 INFLUENT FLOWS AND LOADINGS

The total water produced for the month of April, 2016 was 34.7 MG and the influent parameters were all within the normal range. Please note that at the request of the Illinois EPA, as of February 2016 these numbers now reflect water characteristics prior to Aeration.

The influent flow and loadings are summarized below in Table 2.2

<b>Table 2.2 Influent Concentrations and Flow</b>								
<b>Day</b>	<b>pH</b>	<b>Temp</b>	<b>FE</b>	<b>Mn</b>	<b>Fluoride</b>	<b>Hardness</b>	<b>Alkalinity</b>	<b>Well Flow Gals (k)</b>
1	7.45	13.3	0.73	0.406	0.16	360	280	1.151
2	7.45	12.7	0.62	0.378	0.23	360	280	0.985
3	7.55	13.4	0.74	0.432	0.18	360	280	1.210
4	7.43	13.2	1.89	0.384	0.15	360	280	1.122
5	7.43	13.5	1.23	0.397	0.20	362	290	1.262
6	7.47	13.2	0.84	0.413	0.22	362	284	1.539
7	7.43	12.9	0.87	0.415	0.17	366	282	1.054
8	7.39	12.8	3.09	0.352	0.19	362	280	0.998
9	7.46	12.7	0.84	0.411	0.28	366	280	1.154
10	7.41	12.9	0.58	0.424	0.20	364	282	1.146
11	7.42	12.8	0.61	0.412	0.20	360	280	1.238
12	7.42	13.3	0.56	0.399	0.23	364	280	1.118
13	7.49	13.6	0.76	0.389	0.27	362	284	1.140
14	7.46	13.3	0.88	0.446	0.20	364	286	1.141
15	7.38	13.5	0.88	0.388	0.21	364	284	1.162
16	7.45	13.5	0.96	0.392	0.22	364	270	1.097
17	7.62	14.1	0.75	0.388	0.16	368	290	1.279
18	7.47	14.1	0.75	0.396	0.19	360	280	1.458
19	7.36	13.6	0.71	0.399	0.22	364	280	1.113
20	7.46	13.7	0.97	0.431	0.21	362	284	1.023
21	7.49	13.7	0.83	0.405	0.22	364	284	1.075
22	7.38	13.7	0.92	0.419	0.19	364	284	1.148
23	7.48	14.5	0.84	0.422	0.11	364	286	1.064
24	7.51	13.8	0.75	0.413	0.18	360	284	1.253
25	7.58	13.9	0.83	0.411	0.30	366	286	1.356
26	7.39	13.4	0.84	0.425	0.20	364	284	1.176
27	7.43	13.5	0.98	0.409	0.18	364	284	1.092
28	7.51	13.5	1.03	0.436	0.19	360	280	1.109
29	7.38	13.4	0.88	0.407	0.19	364	286	1.008
30	7.47	13.4	0.86	0.416	0.20	360	282	1.112
31	-	-	-	-	-	-	-	-
<b>Max.</b>	<b>7.62</b>	<b>14.5</b>	<b>3.09</b>	<b>0.446</b>	<b>0.30</b>	<b>368</b>	<b>290</b>	<b>1.539</b>
<b>Min.</b>	<b>7.36</b>	<b>12.7</b>	<b>0.56</b>	<b>0.352</b>	<b>0.11</b>	<b>360</b>	<b>270</b>	<b>0.985</b>
<b>Avg.</b>	<b>7.45</b>	<b>13.4</b>	<b>0.93</b>	<b>0.407</b>	<b>0.20</b>	<b>363</b>	<b>283</b>	<b>1.159</b>
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>34.783</b>

## 2.3 EFFLUENT CONCENTRATIONS

The facility produced 29.4 MG during the month with a daily average of 0.98 MG and a min/max of 0.83/1.27 MG.

Table 2.3 Finished Water Quality										
Date	Free Cl <sub>2</sub>	Total Cl <sub>2</sub>	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
1	1.3	1.3	7.91	13.2	0.01	0.007	0.70	128	264	0.88
2	1.3	1.3	8.00	12.5	0.01	0.010	0.36	124	266	0.88
3	1.3	1.4	7.96	13.5	0.01	0.023	0.26	140	266	0.82
4	1.3	1.3	7.95	13.3	0.01	0.014	0.86	130	270	0.51
5	1.0	1.2	7.87	13.0	0.01	0.016	0.79	120	266	0.80
6	1.3	1.4	7.88	12.9	0.01	0.016	0.92	124	264	0.86
7	1.4	1.6	7.89	12.7	0.01	0.016	0.86	120	264	0.81
8	1.5	1.5	7.82	12.9	0.01	0.012	0.72	124	270	0.85
9	1.4	1.5	7.92	13.6	0.01	0.018	0.68	120	270	0.74
10	1.4	1.5	7.82	12.5	0.01	0.017	0.83	120	260	0.95
11	1.4	1.5	7.84	13.7	0.01	0.009	0.73	120	266	0.83
12	1.4	1.4	7.92	13.7	0.01	0.011	0.70	118	260	0.75
13	1.4	1.5	7.86	13.3	0.01	0.010	0.79	110	266	0.83
14	1.4	1.4	8.01	13.2	0.01	0.021	0.36	122	272	0.80
15	1.4	1.5	7.85	13.9	0.01	0.012	0.83	120	270	0.83
16	1.4	1.6	7.96	13.6	0.01	0.012	0.54	120	260	0.83
17	1.4	1.4	7.91	14.0	0.01	0.010	0.76	120	262	0.83
18	1.4	1.5	7.65	13.3	0.01	0.013	0.72	130	264	0.80
19	1.4	1.5	7.87	14.0	0.01	0.014	0.62	124	262	0.82
20	1.4	1.5	7.85	13.7	0.01	0.014	0.74	120	264	0.57
21	1.4	1.5	7.99	13.6	0.01	0.014	0.30	122	274	0.49
22	1.4	1.5	7.81	13.8	0.01	0.012	0.80	134	264	0.79
23	1.4	1.5	7.83	13.7	0.01	0.013	0.94	120	260	0.81
24	1.4	1.5	7.79	13.8	0.01	0.014	0.68	122	280	0.77
25	1.2	1.4	7.79	14.0	0.01	0.007	1.00	118	268	1.01
26	1.4	1.5	7.86	13.7	0.01	0.014	0.69	118	260	0.71
27	1.4	1.5	7.84	13.4	0.01	0.016	0.88	120	268	0.79
28	1.4	1.5	7.88	13.8	0.01	0.016	0.83	120	266	0.81
29	1.4	1.5	7.88	13.5	0.01	0.016	0.71	118	270	0.81
30	1.4	1.5	7.83	13.3	0.01	0.012	0.93	124	280	0.90
31	-	-	-	-	-	-	-	-	-	-
<b>Max</b>	<b>1.5</b>	<b>1.6</b>	<b>8.01</b>	<b>14.0</b>	<b>0.01</b>	<b>0.023</b>	<b>1.00</b>	<b>140</b>	<b>280</b>	<b>1.01</b>
<b>Min</b>	<b>1.0</b>	<b>1.2</b>	<b>7.65</b>	<b>12.5</b>	<b>0.01</b>	<b>0.007</b>	<b>0.26</b>	<b>110</b>	<b>260</b>	<b>0.49</b>
<b>Avg</b>	<b>1.4</b>	<b>1.5</b>	<b>7.87</b>	<b>13.4</b>	<b>0.01</b>	<b>0.014</b>	<b>0.72</b>	<b>122</b>	<b>267</b>	<b>0.80</b>



## 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)
04/04/2016	0.144	0.086	245	0.267	7.95	0.00
04/12/2016	0.123	0.048	245	0.188	8.11	0.00
04/18/2016	0.628	0.395	236	0.141	7.76	0.00
04/25/2016	0.456	0.232	280	0.235	7.99	0.00
N/A	-	-	-	-	-	-
Minimum	0.123	0.048	236	0.141	7.76	0.00
Maximum	0.628	0.395	280	0.267	8.11	0.00
Average	0.338	0.190	252	0.208	7.95	0.00
<b>Monthly Avg Limit</b>	<b>2.0</b>	<b>1.0</b>	-	-	-	<b>15</b>
<b>Daily Limit</b>	<b>4.0</b>	<b>2.0</b>	<b>500</b>	<b>0.05</b>	<b>6.0-9.0</b>	<b>30</b>

The Chloride sample for the month of April 2016, performed by the Springfield Metropolitan Sanitary District, was 15,300 mg/L. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

### 3. OPERATIONS

#### 3.1 EVENTS IMPACTING OPERATIONS

Mr. Pete Ross came to the plant on April 28, 2016 to complain about the water eroding the soil in his pasture. Mr. Ross indicated that if SSWC was willing to buy the rock, he would use his tractor to put it in place.

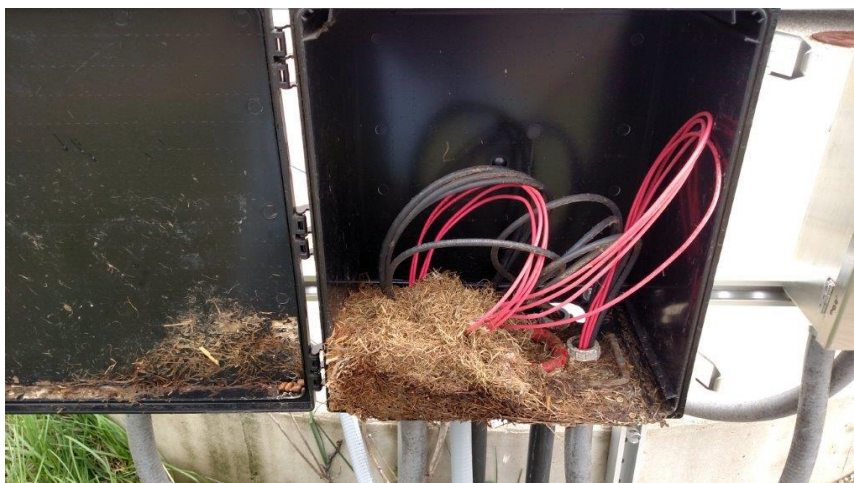


#### 3.2 EMERGENCY & SERVICE CALLS

##### Service Calls:

- Anderson Electric was on-site April 14 and April 15 to repair wires that have been chewed on by mice. The cost of repair was \$494.03.





Flushing on the transmission main to the Chatham Reservoir is scheduled to take place from May 23, 2016 through May 27, 2016 between the hours of 8:00 am and 4:00 pm. A notice has been prepared and forwarded to Laura VanProyen for disbursement and the notice will be added to the SSWC web page.

### 3.2.1 Emergency Call-outs

- There were no emergency call-outs for the month of April 2016.

### 3.3 CUSTOMER INQUIRIES

There were no customer inquiries for the month of April 2016

Justin King's new service was installed on April 13, 2016.

## 4. MAINTENANCE AND REPAIR

### 4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of April 2016, there were 3 inspections, 8 preventative and 1 corrective maintenance activities completed.

Brotcke Well and Pump completed well tests for all ten wells. The High Velocity Injection treatments were successful and raising the capacity of the wells, and the wells have maintained their capacity since the treatments. In addition, where the treatments were performed through the injection port, the pumps have also increased in capacity. Based on the results, Brotcke Well and Pump recommends treating Wells One Two. If funds are available, work should also be done on Well 6. Brotcke will begin treating Well Two on May 16, 2017. Because the % loss of specific capacity, we have shut Well Two down so as not to cause damage to the pump and motor.

Well No	Present	New	% Loss	Last Test	% Loss
1	13	18	28%	17	24%
2	13	25	48%	33	61%
3	21	16	-%	9	-
4	10	9	-%	8	-
5	13	11	-%	13	-
6	12	9	-%	12	-
7	26	18	-%	30	13%
8	31	23	13%	20	-
9	24	18	-%	24	-
10	32	11	-%	31	-

A complete copy of this report can be found at the end of this report as Attachment B.

### 4.2 CORRECTIVE REPAIRS

Emerson has been to the plant and calibrated all but four of the Rosemont Flow Meters. The four meters no calibrated are located approximately 20-feet in the air and will require a lift to be done. A complete copy of the calibration report can be found at the end of the report at Attachment C.

On April 28, 2016, Keith Sommers replaced all the leaking check valves on Bank #1. Additional check valves have been ordered and will be replaced when possible.

## 5. PROJECT MANAGEMENT & SUPPORT

### 5.1 STAFFING & TRAINING

- Woodard and Curran continues to train and provide staffing to the plant as needed.
- Dan Held attended the Midwest Manager's Meeting in St. Charles, Missouri.

### 5.2 CORPORATE SUPPORT

- Dan Held participated in a conference call between Max Middendorf from Mecco Engineering, Joe Pisula and Larry Krause from Donahue Engineering on April 1, 2016.
- Dan Held met with Ray Giguere from Woodard and Curran's SCADA group and Max Middendorf regarding.
- Ray Giguere was on-site April 5, 2016 to make SCADA modifications.
- Marc Thomas was on-site April 6, 2016 to make prepare 2016-2017 budget.
- Laura Bonk was on-site April 11, 2016 to review the remaining Safety Audit items that are still open.
- Paul Roux and Kara Hanson were on-site April 12, 2016.
- Dan Held and Marc Thomas participated in a conference call on April 25, 2016 to discuss possible implications to the MCPE report

### 5.3 BUDGET

The eleventh month financial summary is provided below in Table 4.1 showing the costs are \$28,628 under budget for the year to date.

**Table 5.3 Budget Table**

<b>Budget Category</b>	<b>Month Budget</b>	<b>Month Actual</b>	<b>YTD Budget</b>	<b>YTD Actual</b>	<b>Annual Budget</b>	<b>Over (under)</b>	<b>% of budget</b>
Labor (D.L. + OH)	\$19,187	\$34,921	\$230,244	\$262,070	\$230,244	\$31,826	114%
Utilities	\$8,320	\$5,818	\$99,840	\$85,408	\$99,840	(\$14,432)	86%
Chemicals	\$16,388	\$7,244	\$196,655	\$160,962	\$196,655	(\$35,693)	82%
Maintenance & Repair	\$8,299	\$8,681	\$99,585	\$108,312	\$99,585	\$8,727	109%
Chloride	\$13,813	\$11,276	\$165,760	\$126,104	\$165,760	(\$39,656)	76%
Lab Supplies and Equipment	\$1,530	\$1,015	\$18,355	\$21,465	\$18,355	\$3,110	117%
Office Supplies	\$188	\$217	\$2,250	\$4,343	\$2,250	\$2,093	193%
Miscellaneous Expenses	\$1,213	\$1,412	\$14,550	\$17,774	\$14,550	\$3,224	122%
Other Operating Costs	\$278	\$13,194	\$3,339	\$15,515	\$3,339	\$12,176	465%
<b>Subtotal of Costs for Contract Year 2</b>	<b>\$69,215</b>	<b>\$83,778</b>	<b>\$830,578</b>	<b>\$801,953</b>	<b>\$830,578</b>	<b>(\$28,625)</b>	97%
Fixed Fee for Contract Year 2	\$6,922	\$6,922	\$83,059	\$83,059	\$83,059	\$0	100%
<b>Year One Transition</b>	\$1,365	\$1,365	\$16,385	\$16,382	\$16,385	(\$3)	100%
<b>Total</b>	<b>\$77,502</b>	<b>\$92,064</b>	<b>\$930,022</b>	<b>\$901,394</b>	<b>\$930,022</b>	<b>(\$28,628)</b>	97%



## **6. CAPITAL PLANNING**

### **6.1 APPROVED CIP PROJECTS CURRENT STATUS**

Engineering for the removal of Chlorine of the Lagoon discharge water has been completed and submitted to the Illinois Environmental Protection Agency (EPA) for approval. EPA has a 45-day waiting period requirement before an inquiry can be made regarding the status of the project.

### **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.

5/9/2016

# South Sangamon, IL - Corrosion Coupon Record Copper

Coupon Serial No.	Date Installed	Date Removed	Original Weight (g)	Final Weight (g)	Exposure	Weight Loss (g)	Exposure (hours)	Mils per Year			
								45 days	60 days	90 days	120 days
L3013	23-Jan-13	26-Feb-13	11.977	11.787	33 days	0.18	792	4.06			
L2980	25-Feb-13	1-Apr-13	12.275	12.107	35 days	0.168	840	3.57			
L3012	23-Jan-13	1-Apr-13	11.916	11.67	68 days	0.246	1632		2.69		
L3110	19-Feb-15	6-Apr-15	12.097	11.801	45 days	0.296	1104	4.79			
L3112	6-Apr-15	21-May-15	11.916	11.669	45 days	0.247	1080	4.09		3.65	
L3111	19-Feb-15	21-May-15	11.914	11.468	91 days	0.446	2184	4.78			
A25133	10-Aug-15	24-Sep-15	13.0836	12.795	45 days	0.2886	1080	4.63			
A38143	7-Mar-16	20-Apr-16	11.8296	11.656	44 days	0.2736	1056	3.43			
A38134	7-Mar-16	20-Apr-16	11.8557	11.653	44 days	0.2027	1056				

WATER PLANT  
CHATHAM, IL



Attachment A

South Sangamon IL 050516Copper



5/9/2016

South Sangamon IL 0001700264

**South Sangamon, IL - Corrosion Coupon Record**



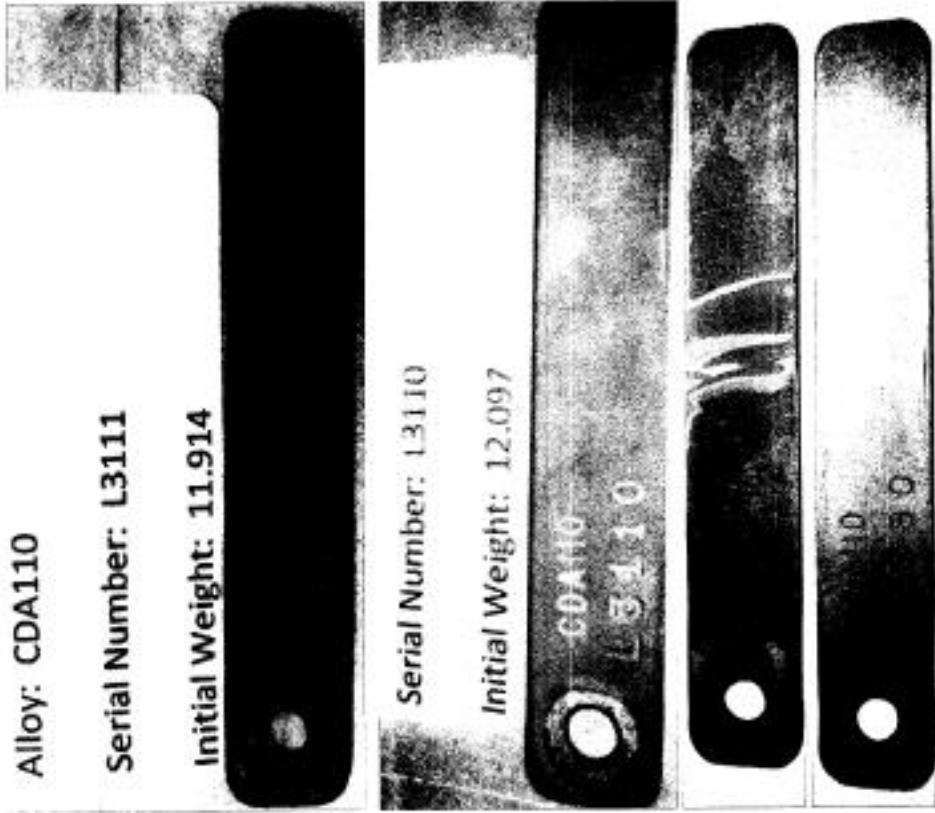
5/19/2016

**South Sangamon, IL - Corrosion Coupon Record**

**Alloy: CDA110**

**Serial Number: L3111**

**Initial Weight: 11.914**



South Sangamon, IL - Corrosion Coupon



Attachment A

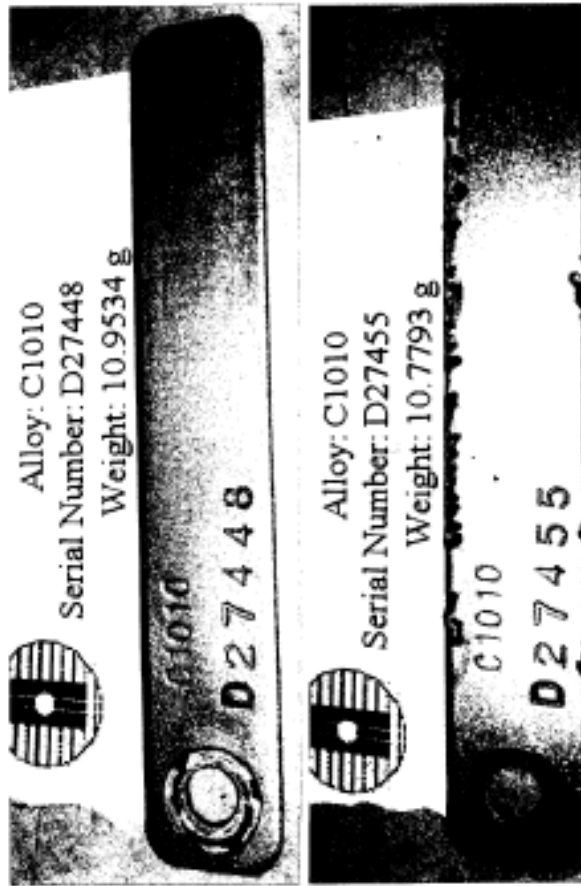
5/8/2016

# South Sangamon, IL - Corrosion Coupon Record

## Steel

Coupon Serial No.	Date Installed	Date Removed	Original Weight (g)	Final Weight (g)	Exposure	Weight Loss (g)	Exposure (hours)	Mils per Year			
								45 days	60 days	90 days	120 days
A 82323	23-Jan-13	25-Feb-13	11.034	10.964	33 days	0.04	792	1.02			
A 71596	25-Feb-13	1-Apr-13	11.369	11.340	35 days	0.029	840	0.70			
A 82324	23-Jan-13	1-Apr-13	11.060	11.045	68 days	0.045	1632		0.56		
C 62950	19-Feb-15	8-Apr-15	10.917	10.833	48 days	0.0835	1104	1.52			
C 62952	6-Apr-15	21-May-15	10.771	10.732	45 days	0.0394	1080	0.74			
C 62951	19-Feb-15	21-May-15	10.642	10.601	91 days	0.041	2184			0.36	
D 12021	10-Aug-15	24-Sep-15	11.114	10.963	45 days	0.1511	1080	2.82			
D 07448	7-Mar-16	20-Apr-16	10.953	10.926	44 days	0.0274	1056	0.52			
D 07455	7-Mar-16	20-Apr-16	10.779	10.759	44 days	0.0203	1056	0.39			

WATER PLANT  
CHATHAM, IL

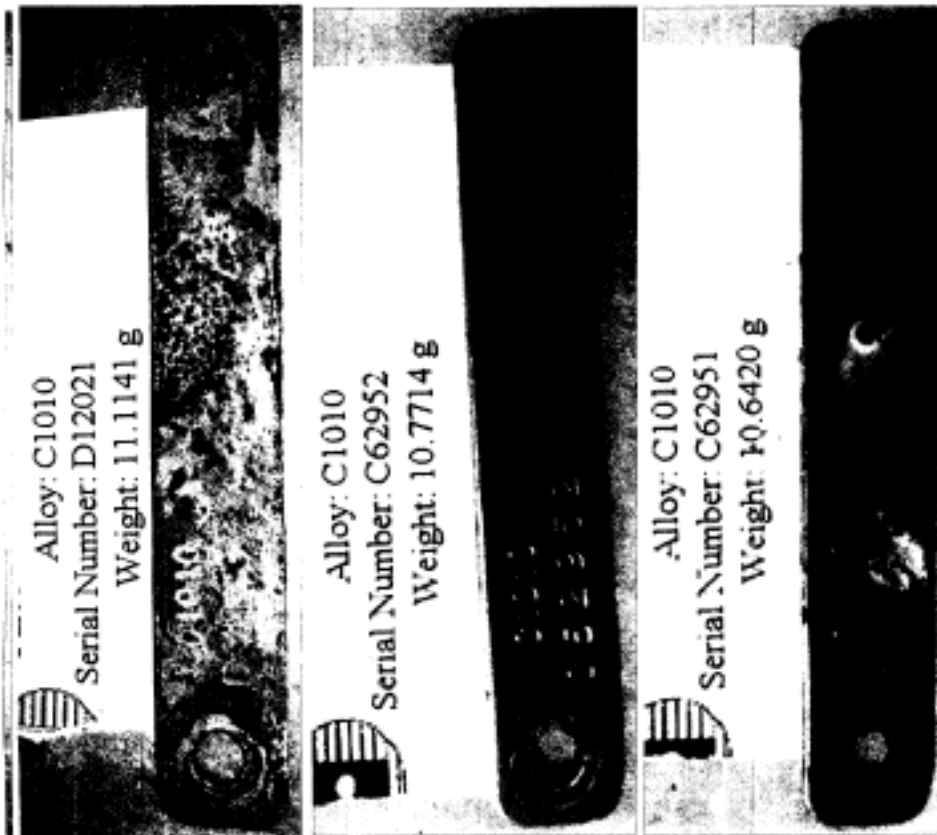


Attachment A

South Sangamon IL 0500165Steel

5/9/2016

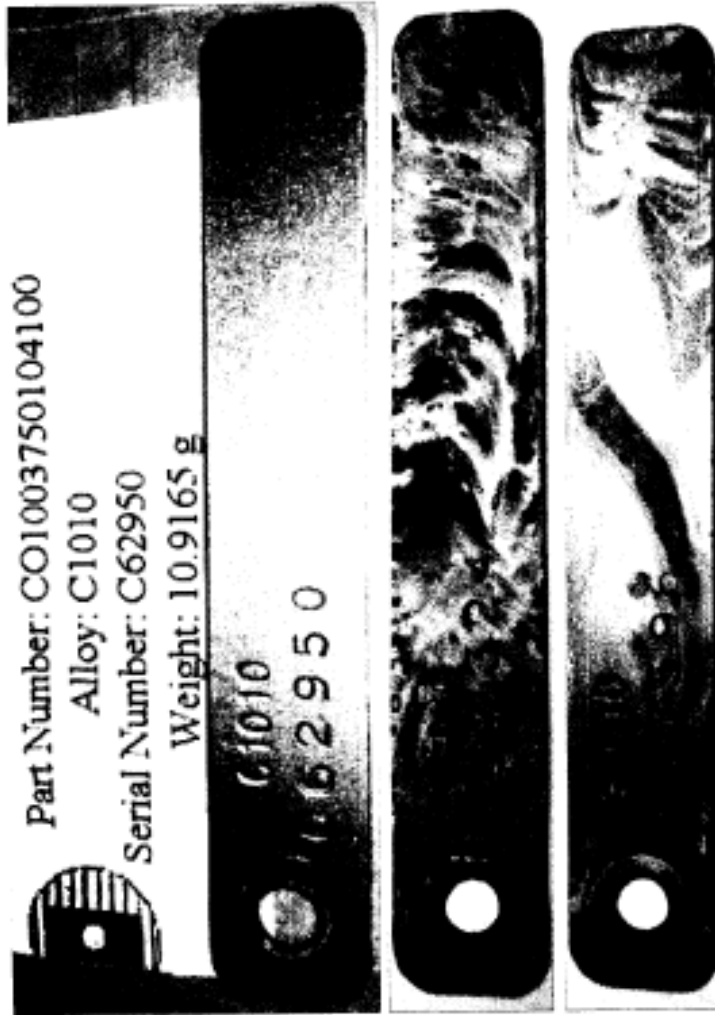
**South Sangamon, IL - Corrosion Coupon Record**



South Sangamon IL 000014029eef

5/9/2016

**South Sangamon, IL - Corrosion Coupon Record**



South Sangamon IL 0000 16 Steel



April 14, 2016

Mr. Dan Held  
 South Sangamon Water Commission  
 9199 Buckhart Rd  
 Rochester, IL 62563

RE: Pump Test Results

Dear Dan:

We have completed the Pump Test on Wells No. 1 - 10.

Presented below are the results.

**Specific Capacity (GPM/Foot)**

<u>Well No.</u>	<u>Present</u>	<u>New</u>	<u>% Loss</u>	<u>Last Test/Treatment</u>	<u>% Loss</u>
1	13	18	28%	17	24%
2	13	25	48%	33	61%
3	21	16	–%	9	–%
4	10	9	–%	8	–%
5	13	11	–%	13	–%
6	12	9	–%	12	–%
7	26	18	–%	30	13%
8	31	23	13%	20	–%
9	24	18	–%	24	–%
10	32	11	–%	31	–%

PO Box 1168, 750 Merus Court, Fenton, Missouri 63026  
 ph 636-343-3029 • ph 800-968-3029 • fx 636-343-3773  
 Visit us at [www.brotcke.com](http://www.brotcke.com)



Attachment B

South Sangamon  
April 14, 2016

- |             |  |
|-------------|--|
| Well No. 1  | This well has never been treated since it was installed in 2012. The SC has dropped 28% from when it was new and 24% in the last year. This well should be treated.                                |
| Well No. 2  | This well has never been treated since it was installed in 2012. The SC has dropped 48% from when it was new and 61% in the last year. This well should be treated.                                |
| Well No. 3  | This well was treated since in 2015. The SC increased from 9 to 21 which is above its SC of 16 when it was new.  |
| Well No. 4  | This well was treated since in 2015. The SC increased from 8 to 10 which is above its SC of 9 when it was new.   |
| Well No. 5  | This well was treated in Nov of 2014. The treatment brought the SC up to a 13 which is greater than it was when it was new. The present SC has not dropped since the well was treated in Nov 2014. |
| Well No. 6  | This well has never been treated since it was installed in 2012. The SC has not decreased since its start up.  |
| Well No. 7  | This well was treated in May of 2014. The SC was 16 and was raised to a 32. Since May of 2014 the well has dropped to a 26.  |
| Well No. 8  | This well was treated since in 2015. The SC increased from 20 to 31 which is above its SC of 23 when it was new.   |
| Well No. 9  | This well was treated in May of 2014. The SC was 16 and was raised to a 24. Since May of 2014 the well has held its SC.  |
| Well No. 10 | This well was treated in May of 2014. The SC was 7 and was raised to a 31. Since May of 2014 the well has held its SC.   |



South Sangamon  
April 14, 2016

**Pump Condition (GPM)**

<u>Well No.</u>	<u>Present</u>	<u>Design</u>	<u>% Loss</u>
1	200	250	20%
2	200	250	20%
3	?	250	??%
4	200	250	20%
5	250	250	-%
6	120	250	52%
7	---	250	---
8	180	250	30%
9	200	250	20%
10	220	250	12%

- Well No. 1 The pump for well 1 has design points of 250 gpm at 148' tdh. The pump is operating at 200 gpm at its design head which is a 20% drop in pump capacity which is probably related to iron building up in the pump. The pump does not require any maintenance at this time. Maximum pumping rate was 260 gpm.
- Well No. 2 The pump for well 2 has design points of 250 gpm at 148' tdh. The pump is operating at 200 gpm at its design head which is a 20% drop in pump capacity which is probably related to iron building up in the pump. The pump should be monitored for performance. Maximum pumping rate was 260 gpm.
- Well No. 3 We could not get a reading on the pressure gauge. The gauge should be replaced when scheduled maintenance is performed.
- Well No. 4 The pump for well 4 has design points of 250 gpm at 148' tdh. The pump is operating at 200 gpm at its design head which is a 20% drop in pump capacity which is probably related to iron building up in the pump. The pump does not require any maintenance at this time. Maximum pumping rate was 300.
- Well No. 5 The pump for well 5 has design points of 250 gpm at 148' tdh. The pump is operating at its design points. The injection treatment was effective at cleaning the iron from the pump and restoring its capacity. The pump does not require any maintenance at this time. Maximum pumping rate was 325.
- Well No. 6 The pump for well 6 has design points of 250 gpm at 148' tdh. The pump is operating at 155 gpm at its design head which is a 52% drop in pump capacity which is probably related to iron building up in the pump. The pump should be treated for performance. Maximum pumping rate to plant was 200 gpm.





South Sangamon

April 14, 2016

- Well No. 7 The pump for well 7 has design points of 250 gpm at 148' tdh. This pump appears to be way off the curve. Last year's report indicated that it should be monitored. We will retest when we come to treat your wells.
- Well No. 8 The pump for well 8 has design points of 250 gpm at 148' tdh. The pump is operating at 180 gpm at its design head which is a 30% drop in pump capacity which is probably related to iron building up in the pump. The pump should be monitored for performance. Maximum pumping rate was 231 gpm.
- Well No. 9 The pump for well 9 has design points of 250 gpm at 148' tdh. The pump is operating at 200 gpm at its design head which is a 20% drop in pump capacity which is probably related to iron building up in the pump. The pump does not require any maintenance at this time. Maximum pumping rate was 320 gpm.
- Well No. 10 The pump for well 10 has design points of 250 gpm at 148' tdh. The pump is operating at 220 gpm at its design head which is a 12% drop in pump capacity which is probably related to iron building up in the pump. The pump does not require any maintenance at this time. Maximum pumping rate was 310 gpm.

In summary, the High Velocity Injection treatments that were performed on 3,4, and 8 were successful and raising the capacity of the wells, and the wells have maintained their capacity since the treatments. In addition, where the treatments were performed through an injection port, the pumps have also increased in capacity. I recommend treating wells 1 and 2. If funds are available, I would also treat well 6 to increase pump capacity. Pump test sheet and pump curves are attached for your files.

If you have any questions please feel free to contact me.

Sincerely,  
BROTCKE WELL & PUMP INC.

Todd Thomas

G:\DR\Todd\Letters 1\South sangamon\South Sangamon-PTResult-4-14-16 for wells 1 through 10.doc



Instrument And Valve Services Company  
 Chamasson, MN 55317  
 Phone: 800-654-7768  
 Fax: 952-906-8844  
<http://www.emersonprocess.com/IVS/>

**FIELD SERVICE REPORT**

Request No.: 1509490 P.O. No.: 4336 8106 0036 4316	Sales Person: TERESA EDWARDS Quote No.:
Customer: SOUTH SANGAMON WATER COMMISSION Address: 6196 BUCKHART RD State: IL City: ROCHESTER Zip Code: 62563	Contract No.:
Contact Name: Dan Held Email Address: dhald@woodardcurran.com Phone No.: 317-415-3541 Fax No.:	Task No: 818408      Service Date: 8-Apr-2016  Technician: GARY SOUTH Task Type: IVS Demand Division: IVS Model No.: 3051 Serial No.:

Detailed Charges

Fixed Charges							
Service	Description	Price	Svc Date	Total			
Customer	Flat Rate, Labor Only	\$1,818.00	8-Apr-2016	\$1,818.00			
Labor							
Service	Labor Item	Start	End	Duration	Svc Date	Rate	Total
Customer	TV Fixed OT	5:00 AM	7:00 AM	2.00	8-Apr-2016	Fixed	Fixed
Customer	TV Fixed ST	7:00 AM	7:30 AM	0.50	8-Apr-2016	Fixed	Fixed
Customer	LB Fixed ST	7:30 AM	1:00 PM	3.50	8-Apr-2016	Fixed	Fixed
Customer	TV Fixed ST	1:00 PM	3:00 PM	2.00	8-Apr-2016	Fixed	Fixed
Customer	TV Fixed OT	3:00 PM	3:30 PM	0.50	8-Apr-2016	Fixed	Fixed
Mileage							
Service	Expense Item	Svc Date	Expense Note	Qty	Total		
Customer	Mileage \$ per Mile	8-Apr-2016	Rd. Trip	318	NIC		
Expenses							
Service	Expense Item	Svc Date	Expense Note	Total			
Customer	Meals Per Diem	8-Apr-2016		NIC			



Instrument And Valve Services Company  
Chanhassen, MN 55317  
Phone: 800-854-7768  
Fax: 952-906-8844  
<http://www.emersonprocess.com/TVS/>

**FIELD SERVICE REPORT**

Request No.: 1509490 P.O. No.: 4228 8500 8038 4088 Customer: SOUTH SANGAMON WATER COMMISSION Address: 8158 BUCKHART RD State: IL City: ROCHESTER Zip Code: 62563 Contact Name: Dan Held Email Address: dh@woodardcurran.com Phone No.: 217-415-3541 Fax No.:	Sales Person: TERESA EDWARDS Quote No.: Contract No.: Task No: 819409      Service Date: 8-Apr-2016 Technician: GARY SOUTH Task Type: I/V Demand Division: I/V Model No.: 3051 Serial No.:
--	--

**Detailed Charges**

**Problem Text**  
SITE VISIT, MW 3051, QTY 8, PRE-CALIBRATION

**Summary**  
I arrived on site at 7:30 AM and met with Keith, who directed me to the instruments to be calibrated. I got my equipment and got started. I did 3 pressure transmitters and then a flow DP and then started on the ones on the tanks. There were a total of 4 tanks with 3 transmitters on each. They had each one transmitter that I couldn't reach. Also, the pressure transmitters on the tanks have a single valve manifold instead of a 2 valve manifold. As a result it is very hard to calibrate the pressures. I took a look at one of the 3490's on the far pit. The customer didn't have any documentation on it so I'm not really sure what is supposed to be controlled and with what. I did a total of 10 calibrations and looked at one 3490. I plan on returning next week to finish the calibrations.

**Billing Notes**  
Bill to customer's Visa card.

Total Charges	\$	2,487.40
Total Charges Waived	\$	689.40
Customer Total	\$	1,818.00

Remit-to Address: Instrument And Valve Services Company  
22737 Network Place  
Chicago, IL 60673-1227  
THIS IS NOT AN INVOICE

Service Representative

Customer Representative



Attachment C



Instrument And Valve Services Company  
 Chanhassen, MN 55317  
 Phone: 800-854-7768  
 Fax: 952-906-8844  
<http://www.emersonprocess.com/IVS/>

**FIELD SERVICE REPORT**

Request No.: 1509490 P.O. No.: Visa Auth	Sales Person: Teresa Edwards Quote No.:
Customer: SOUTH SANGAMON WATER COMMISSION Address: 9199 BUOIHART RD State: IL City: ROCHESTER Zip Code: 62583-6090	Contract No.:
Contact Name: DANIELD Email Address: daniel@woodardcurran.com Phone No.: 217-415-3541 Fax No.:	Task No: 016790      Service Date: 13-Apr-2016  Technician: GARY SOUTH Task Type: IVS Demand Division: RMD Model No.: 3051 Serial No.:

Detailed Charges

Fixed Charges

Service	Description	Price	Svc Date	Total
Customer	Flat Rate; Labor Only	\$1,818.00	13-Apr-2016	\$1,818.00

Labor

Service	Labor Item	Start	End	Duration	Svc Date	Rate	Total
Customer	TV Fixed OT	4:30 AM	7:00 AM	2:50	13-Apr-2016	Fixed	Fixed
Customer	LB Fixed ST	7:00 AM	3:00 PM	8:00	13-Apr-2016	Fixed	Fixed
Customer	TV Fixed OT	3:00 PM	5:30 PM	2:50	13-Apr-2016	\$271.20	\$ 678.00

Mileage

Service	Expense Item	Svc Date	Expense Note	Qty	Total
Customer	Mileage \$ per Mile	13-Apr-2016	Rd Trip	388	NC

Expenses

Service	Expense Item	Svc Date	Expense Note	Total
Customer	Meals Per Diem	13-Apr-2016		NC



Instrument And Valve Services Company  
 Chanhassen, MN 55317  
 Phone: 800-854-7788  
 Fax: 952-906-8844  
<http://www.emersonprocess.com/IVS/>

### FIELD SERVICE REPORT

Request No.: 1509490 P.O. No.: Via Auth	Sales Person: Teresa Edwards Quote No.:
Customer: SOUTH SANGAMON WATER COMMISSION Address: P199 BUCKHART RD State: IL City: ROCHESTER Zip Code: 62560-0090	Contract No.:
Contact Name: DAN FIELD Email Address: dfield@woodardcurran.com Phone No.: 217-415-3541 Fax No.:	Task No: 019798      Service Date: 13-Apr-2016 Technician: GARY SOUTH Task Type: IVS Demand Division: R&D Model No.: 3051 Serial No.:

**Detailed Charges**

**Problem Text**

SITE VISIT: MNR-3051; CITY: PROB-CALIBRATION (RETURN VISIT ON 4/13/16)

**Summary**

I ARRIVED AT 7:00 AM. I had to wait for Keith to arrive at about 7:15 before I got started. I scanned all the devices into AMS and then started doing the calibrations. After I finished up the remainder of the calibrations we went back out to the far sump and I injected a 4-20 Ma signal into the 3490 and adjusted the output to 0 to 16.4 feet. Since the 3490 showed the correct values when I injected the Ma signal I'm certain that the level transmitter is not working correctly. I left about 12 PM and started home but Keith called and said that the flow transmitter that I had changed to square root from linear wasn't working correctly. So I turned around and went back. I changed the transmitter back to linear and then we went back out to the sump pit and I got it sending data back to the Scada unit. I removed the offset so that it read the correct values for the 4-20 input. I then got ready and left about 3PM.

**Billing Notes**

Customer's credit card.

Total Charges	\$	3,295.40
Total Charges Waived	\$	739.40
Customer Total	\$	2,496.00

Remit-to Address: Instrument And Valve Services Company  
 22737 Network Place  
 Chicago, IL 60673-1227  
**THIS IS NOT AN INVOICE**

Service Representative

Customer Representative



## SOUTH SANGAMON WATER COMMISSION

(Public Water Supply ID# IL1670080)

The South Sangamon Water Commission is committed to ensuring the quality of your water and want you to be informed about the water and services delivered to you in 2015. This Annual Water Quality Report is for the period of January 1 to December 31, 2015. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. The source of drinking water used by South Sangamon Water Commission is Ground Water. For more information regarding this report, please contact Mr. Daniel L. Held, Project Manager for Woodard and Curran at (217) 381-2208.

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó con alguien que lo entienda bien.

### What are the contaminants in my drinking water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water



from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791.

**Additional Information regarding Lead**

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

**Source Water Information**

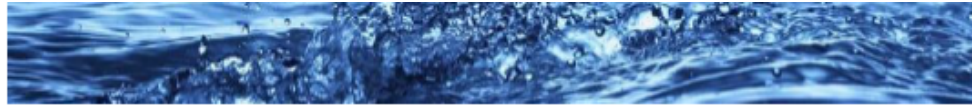
Source Water Name	Type of Water	Report Status	Location
Well 1	GW	Active	
Well 10	GW	Active	
Well 2	GW	Active	
Well 3	GW	Active	
Well 4	GW	Active	
Well 5	GW	Active	
Well 6	GW	Active	
Well 7	GW	Active	
Well 8	GW	Active	
Well 9	GW	Active	

**Source Water Assessment**

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings on the third Tuesday of the month at the water plant. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please contact Daniel L. Held, Project Manager for Woodard and Curran, at (217) 381-2208 or [dheld@woodardcurran.com](mailto:dheld@woodardcurran.com). To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

**Source of Water: SOUTH SANGAMON WATER COMMISSION** Based on the information located in the Wellhead Protection Planning Map no potential sources are located within the source water protection area of the wells. Information provided by the Leaking Underground Storage Tank and Sit Remediation Program Sections of Illinois EPA did not indicate any additional sites with on-going remediation(s).





The Illinois EPA has determined that the SSWC's Community Water Supply's source water has a high susceptibility to IOC, SOC, and bacteriological contamination. This determination is based on a number of criteria including: land use near the wells, location within a floodplain, well depth, and the available hydrogeological data. In accordance with the U.S. EPA's Groundwater Rule, SSWC has received two (2) Non-Compliance Advisory letters (NCA) in 2013 for bacteriological detections in wells #5 and #6. The facility addressed the NCA's in a variety of ways such as chlorinating the well, secured well fittings, a new sample tap(s), use of outside environmental consultants and reviewing the sampling protocol. While the NCA(s) have now been resolved, monitoring data is continually being tracked in regards to all active potable wells at SSWC. It should be noted, while the community's wells are properly constructed with sound integrity, the location of the wells is within a floodplain and well depth leaves the potential for bacteriological contamination. However, to date, all potential routes and sanitary defects have been mitigated such that the source water is adequately protected, monitoring data has not indicated a history of disease outbreak and the sanitary survey of the water supply did not indicate a bacteriological contamination threat within 1,000 ft of the source water.

### 2015 REGULATED CONTAMINANTS DETECTED

#### Lead and Copper

Definitions:

**Action Level Goal (ALG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALG's allow for a margin of safety.

**Action Level:** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90 <sup>th</sup> Percentile	# Sites over AL	Units	Violation	Likely Source of Contaminant
Copper	2015	1.3	1.3	0.803	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; corrosion of household plumbing systems.
Lead	2015	0	15	4.04	0	ppb	N	Corrosion of household pumping systems; Erosion of natural deposits

#### Water Quality Test Results

**Maximum Contaminant Level Goal or MCLG** The level of a contaminant in drinking water below which there is no known or expected risk of health. MCLGs allow for a margin of error.





- Maximum Contaminant Level or MCL:** The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum residual disinfectant level goal or MRDLG** The level of drinking water disinfectant below which there is no known or expected risk of health. MRDLGs do reflect the benefits of the use of disinfectants to control microbial contaminants.
- Maximum residual disinfectant level or MRDL:** The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Definitions:** The following tables contain scientific terms and measures, some of which may require explanation.
- ppb:** micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water.
- na:** not applicable.
- Avg:** Regulatory compliance with some MCLs are based on running annual average of monthly samples.
- ppm** milligrams per liter or parts per million – or one ounce in 7,350 gallons of water.
- pCi/L** picocuries per liter (a measure of radioactivity)
- ND** Not detected.

**Disinfection and Disinfection By-Products**

	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	12/31/15	1	0.5 – 1.01	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes
Halocetic Acids (HAA5)	2015	21.8	21.8 – 21.8	No goal for this total	80	ppb	N	By-products of drinking water disinfection.
Total Trihalomethanes (TTHM)	2015	19.64	19.64 – 19.64	No goal for this total	80	ppb	N	By-products of drinking water disinfection.



**Inorganic Contaminants**

	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2015	0.019	0.019 – 0.019	2	2	ppm	N	Discharge of drilling wastes; discharge from metal refineries; erosion from natural deposits
Fluoride	2015	0.886	0.886 – 0.886	4	4.0	ppm	N	Erosion of natural deposits; water additives which promote strong teeth; discharge from fertilizer and aluminum factories.
Iron	2015	ND	ND	None	1.0	ppm	N	This contaminant is not currently regulated by USEPA. However, the state regulates. Erosion of natural deposits.
Manganese	2015	22.7	11.4 – 22.7	150	150	ppb	N	This contaminant is not currently regulated by USEPA. However, the state regulates. Erosion of natural deposits.
Nitrate (measured as nitrogen)	2015	0.343	0.343 – 0.343	10	10	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	2015	122	122 - 122	None	None	ppm	N	Erosion from naturally occurring deposits; used in water softening regeneration.



**Radioactive Contaminants**

	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2015	1	0.91 – 1.53	0	5	pCi/L	N	Erosion of natural deposits
Gross alpha excluding radon and uranium	2015	2	1.12 – 1.58	0	15	pCi/L	N	Erosion of natural deposits

Any and all contaminants not found in this report are not detected in the finished drinking water.

**Violation Table**

The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of the water delivered by the system.

Violation Type	Violation Begin	Violation End	Violation Explanation	Corrective Action
CCR Report	07/01/2015	07/15/2015	We failed to provide to you, our drinking water customers, an annual report that informs you about the quality of our drinking water and characterizes the risks from exposure to the contaminants detected in our drinking water.	Last year the annual Consumer Confidence Report was provided to the water customers on July 10, 2015 which is after the required date of July 1, 2015. For 2016, SSWC is issuing the report in early May so it is delivered on time.