

SOUTH

SANGAMON

WATER

COMMISSION

Monthly
Operating
Report
September
2018

WATER QUALITY

All IEPA daily and monthly required testing and sampling were completed for September 2018.

A total of 44.7 MG was pumped from the well field in September. The graph below depicts concentrations and parameters for the raw water.

RAW WATER							
	pH	TEMP	IRON	MANGANESE	HARDNESS	ALKALINITY	WELL FLOW
MAX.	7.68	16.8	1.97	.256	380	290	1.684
MIN.	7.02	14.4	.54	.008	350	270	1.150
AVE.	7.3	19.0	1.0	.2	362	279.9	1.5
TOTAL							

The Westech filters, filtered 40,698 MG for September 2018. The daily average was 1.357 MG. The below graph summarizes our finished water quality.

FINISHED WATER									
	FREE CL2	TOTAL CL2	pH	TEMP	IRON	MANGANESE	FLUORIDE	HARDNESS	ALKALINITY
MAX.	1.7	1.96	8.3	17.3	.04	.040	1.25	280	280
MIN.	1.15	1.4	6.83	15.1	0	.011	.61	110	266
AVE.	1.4	1.7	7.5		.010	.022	.8	147.3	272.9
MCL					1.0		4.0		
SMCL					0.3	0.05	2.0		

Our monthly NPDES results for our discharge waste to the Sangamon River are listed below.

PARAMETER	RESULTS	RESULTS	UNITS	PERMIT LIMITS	PERMIT LIMITS
pH	7.68	7.68	SU	6 .0 min	9.0 max
Solids S.S.	4.0	4.0	mg/L	15-30d/ave	30 d/max
Iron, total	0.589	0.589	mg/L	2-30 d/ave	4 d/max
Manganese	.501	.501	mg/L	1-30 d/ave	2 d/max
Chloride		320	mg/L	500 d/max	500 d/max
Flow	.157	.194	MGD	3 MGD	3 MGD
Chlorine	0	0	mg/L	.05 d/max	.05 d/max

The Springfield Metropolitan Sanitary District samples our Chloride level on a monthly basis. We our allowed a maximum Chloride level of 30,000 mg/L. Our result for September was 15,000 mg/L

OPERATIONS

- ✓ 1. The ROINC, bottle recipient, and Administrative Contact forms for the IEPA have been completed.
- ✓ 2. The SSWC NPDES report for September (above) was submitted online. We had to go through the process in which to input data and submit electronically.
- ✓ 3. Chatham has drained their elevated tower to maintain and paint. So far, things have gone very well. They hope to be completed by Thanksgiving as I understand.
- ✓ 4. Ameren Illinois contacted us about the issues we had experienced. They have found issues on their side. They have made the repairs and Kevin states we haven't had issues since.
- ✓ 5. Michael Summerville has completed the mowing at the well fields.
- 6. Brotcke Well and Pump rebuilt High Service pump number 3. They were also on site to re-install. We have put pump 3 back in service.
- 7. A.A.C. and Lee Electric has the SCADA portion for the ammonium sulfate ready for chloramine conversion. I believe we are still waiting for the correct quill. I've ask Max to include a feed line to the effluent line exiting

the WTP. If we would ever have an issue not meeting CT times for Giardia and Virus removal, we can switch feed points.

8. Brotcke Well and Pump has been hired to perform pump tests on our 10 wells. They were here on Thursday (10-11-18) and pulled pump 10, which had quit pumping. It was found to have been severely plugged with iron and manganese. The motor was also found to be ruined. See photo.
9. Hach has also been hired to perform maintenance and calibration our Hach equipment. I do not have a start date yet.
10. Received an email from EPA at 10:10 pm Friday, they haven't received our NPDES for August 2018. If I don't have it submitted by the meeting, I will shortly thereafter.
11. I have a prior commitment to an operators group on October 24-25 in Gibson City. I will leave at noon on the 24th and be back the 26th.
12. I spoke with John B., with IEPA, he suggested calling Westech and having a training session on the filters with Kevin and I. I call Westech, and have not heard back from them. I will follow up with them.