ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT

South Sangamon Water Commission

FOR MONTH OF October 2018 **CORRECTED**

		Pumping Totals				Chemicals Applied										UF Filters					Softeners								Chloride			
						Chlorine		Fluoride		Phosphate		NaMnO4		Bi-Sulfite		Each day indicate total number of hours since previous backwash. If backwashed at mid-day indicate "hours previous" / "hours following."				Wash Water Gal. (M gal)	Water Softened Gal. (M gal)	Water Bypassed Gal (M gal)	Each day indicate total number of hours since previous regeneration. If regeneration at mid-day, indicate hours previous/hours following.				Soft. Regen		In mg/L			
Date	Time Meter Read	Hours Filter Ran	UF Gal. Filtered (M gal)	Water Treated (M gal)	Plant Water (M gal)	Am't Used lbs.	Calc mg/l as Cl	Am't Used lbs.	Calc mg/l as F	Am't Used lbs.	Calc mg/l as PO4	Am't Used lbs.	Calc mg/l as NaMnO4	Am't Used lbs.	Calc mg/l	1	2	3	4				1	2	3	4	Salt Used lbs.	Washed Water Gal.	IEX 1	IEX 2	IEX 3	IEX 4
1	7:00	19.1	1.367	1.185	0.013	282	3.57	42	0.53	11	0.21	27	0.47	0		0.66	0.66	0.66	0.66	151	0.902	0.465		1,250	1,417	2,132						
2	7:00	21.2	1.538	1.355	0.010	247	3.12	40	0.77	12	0.23	28	0.49	0		0.66	0.66	0.66	0.66	172	1.015	0.523	451									
3	7:00	21.2	1.520	1.203	0.007	251	3.17	35	0.67	11	0.21	30	0.53	0		0.66	0.66	0.66	0.66	171	1.003	0.517	1519	520	358	1,003						
4	7:00	19.7	1.381	1.220	0.014	241	3.05	36	0.69	13	0.25	28	0.49	0		0.66	0.66	0.66	0.66	147	0.911	0.470		2,054	1,420	2,250						
5	7:00	19.1	1.375	1.069	0.013	216	2.73	35	0.67	12	0.23	26	0.46	0		0.66	0.66	0.66	0.66	157	0.907	0.468	650									
6	7:00	17.4	1.305	1.072	0.003	234	2.96	32	0.62	13	0.25	27	0.47	0		0.66	0.66	0.66	0.66	147	0.861	0.444	2122	1441	320	1608						
7	7:00	18.1	1.255	1.143	0.017	225	2.85	33	0.63	15	0.29	26	0.46	0		0.66	0.66	0.66	0.66	140	0.828	0.427			1,740							
8	7:00	17.0	1.222	1.020	0.006	254	3.21	33	0.63	16	0.31	29	0.51	0		0.66	0.66	0.66	0.66	118	0.806	0.416	1,504	1024		828						
9	7:00	18.0	1.258	1.113	0.011	245	3.10	36	0.69	23	0.44	28	0.49	0		0.66	0.66	0.66	0.66	141	0.830	0.428			627	2,309						
10	7:00	18.8	1.286	1.112	0.011	223	2.82	34	0.65	27	0.52	25	0.44	0		0.66	0.66	0.66	0.66	138	0.848	0.438	635	36	1722							
11	7:00	19.4	1.323	1.068	0.012	224	2.83	32	0.62	31	0.60	26	0.46	0		0.66	0.66	0.66	0.66	142	0.873	0.450	2,224	1953		1635						
12	7:00	17.4	1.227	1.041	0.010	197	2.49	33	0.63	36	0.69	23	0.40	0		0.66	0.66	0.66	0.66	126	0.810	0.417			836							
13	7:00	16.2	1.174	0.970	0.006	223	2.82	30	0.58	34	0.65	25	0.44	0		0.66	0.66	0.66	0.66	116	0.775	0.399		1929		937						
14	7:00	16.6	1.129	1.001	0.010	254	3.21	32	0.62	37	0.71	29	0.51	0		0.66	0.66	0.66	0.66	118	0.745	0.384	107		306	1929						
15	7:00	18.4	1.273	1.088	0.010	238	3.01	36	0.69	37	0.71	25	0.44	0		0.66	0.66	0.66	0.66	142	0.840	0.433	1,435	1,312	1,632							
16	7:00	19.9	1.382	1.175	0.010	138	1.75	34	0.65	6	0.12	16	0.28	0		0.66	0.66	0.66	0.66	151	0.912	0.470				538						
17	7:00	15.0	1.074	1.011	0.007	33	0.42	25	0.48	7	0.13	0	0.00	0		0.66	0.66	0.66	0.66	110	0.709	0.365										
18	7:00	3.7	0.226	0.016	0.000	189	2.39	1	0.02	1	0.02	0	0.00	0		0.66	0.66	0.66	0.66	32	0.149	0.077	1,737	2,135	1614							
19	7:00	11.4	0.698	0.698	0.010	237	3.00	25	0.48	6	0.12	0	0.00	0		0.66	0.66	0.66	0.66	77	0.461	0.237				136						
20	7:00	20.7	1.315	1.049	0.006	247	3.12	27	0.52	8	0.15	14	0.25	0		0.66	0.66	0.66	0.66	144	0.868	0.447	1,045		610							
21	7:00	18.3	1.180	0.993	0.007	243	3.07	31	0.60	8	0.15	15	0.26	0		0.66	0.66	0.66	0.66	116	0.779	0.401		624	1720	245						
22	7:00	20.4	1.319	1.024	0.015	237	3.00	33	0.63	9	0.17	16	0.28	0		0.66	0.66	0.66	0.66	143	0.871	0.448	109			1310						
23	7:00	21.3	1.380	1.166	0.004	233	2.95	31	0.60	11	0.21	18	0.32	0		0.66	0.66	0.66	0.66	151	0.911	0.469	1,502	632	430	2,341						
24	7:00	20.5	1.318	1.125	0.017	227	2.87	31	0.60	12	0.23	19	0.33	0		0.66	0.66	0.66	0.66	144	0.870	0.448			1,716							
25	7:00	20.5	1.291	1.077	0.006	217	2.74	29	0.56	12	0.23	19	0.33	20		0.66	0.66	0.66	0.66	147	0.852	0.439	628	1,750		1,310						
26	7:00	18.5	1.272	0.947	0.011	192	2.43	25	0.48	14	0.27	19	0.33	20		0.66	0.66	0.66	0.66	138	0.840	0.432			1138							
27	7:00	14.8	0.918	0.777	0.004	176	2.23	23	0.44	18	0.35	19	0.33	15		0.66	0.66	0.66	0.66	88	0.606	0.312	730			1,329						
28	7:00	17.5	1.070	0.935	0.008	202	2.55	26	0.50	14	0.27	19	0.33	27		0.66	0.66	0.66	0.66	120	0.706	0.364	2333	810	1,051							
29	7:00	17.7	1.121	0.990	0.012	237	3.00	31	0.60	8	0.15	17	0.30	20		0.66	0.66	0.66	0.66	113	0.740	0.381			2346	253						
30	7:00	20.0	1.339	1.133	0.008	226	2.86	32	0.62	42	0.81	18	0.32	24		0.66	0.66	0.66	0.66	142	0.884	0.455	1,349	146		1,708						
31	7:00	21.1	1.544	1.178	0.012	252	3.19	30	0.58	41	0.79	19	0.33	22		0.66	0.66	0.66	0.66	169	0.960	0.495		1639	1038							
Total		558.9	38.08	31.954	0.290	6840	86.51	953	18.05	545	10.48	630	11.05	148	0					4111	25.072	12.919	20,080	19,255	22,041	23,801	0	0	0	0	0	0
Max		21.3	1.544	1.355	0.017	282	3.57	42	0.77	42	0.81	30	0.53	27	0					172	1.015	0.523	2,333	2,135	2,346	2,341	0	0	0	0	0	0
Min		3.7	0.226	0.016	0.000	33	0.42	1	0.02	1	0.02	0	0.00	0	0					32	0.149	0.077	107	36	306	136	0	0	0	0	0	0
Ave.		18.0	1.228	1.031	0.009	221	2.79	30.7	0.58	17.6	0.34	20.3	0.36	4.77419	#DIV/0!	0.66	0.66	0.66	0.66	133	0.809	0.417	1,181	1,203	1,160	1,322	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

*Enter Final Reading Last Month

POINT OF APPLICATION

METER LOCATION:

1	12.5	% Chlorine Solution Fed
2	19	% Fluoride Solution Fed
3	40	% BisulfiteSolution Fed
4	33	% Phosphate Solution Fed
5	20	% Sodium Permanganate Fed

I certify that the information in this report is complete and accurate to the best of my knowledge

Reported by: _____ Cert or Req: 7337

Bacterials Sent: 10-2 & 3 2018

Date:

CHLORINATION

Type of Chlorine Used

Chlorine Gas

Calcium Hypochlorite ____%

Sodium Hypochlorite _12.5 %

Chlorine Test Kit Used: _____

FLUORIDATION

Type of Fluoride Used

Hydrofluosilicic Acid _19___%F

Sodium Fluoride ____%F

Other _____

Type of Test Instrument Used:

RTW Sample

Temp	°C
TDS	mg/L
pH	SU
Alkalinity	mg/L
Calcium Hardness	mg/L
Chloiride	mg/L
Sulfate	mg/L

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DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT

South Sangamon Water Commission

FOR MONTH OF October 2018 CORRECTED

			Pumping Totals				Chemical Tests																						Membrane Integrity Test		
							Raw						Pre Filter			Post Filter			Post IEX		Finished								Post Filter		
Date	Time Meter Read	Hours Filter Ran	Total Well (M gal)	UF Gallons Filtered (M gal)	Water Treated (M gal)	Plant Water (M gal)	pH	Temp deg. C	Total Alk. mg/L	Total Hard. mg/L	Total Fe mg/L	Total Mn mg/L	Tot Fe mg/L	Tot Mn mg/L	Sol Mn mg/L	Total Fe mg/L	Total Mn mg/L	Mem Turb. NTU	Total Fe mg/L	Total Mn mg/L	pH	Total Alk. mg/L	Total Hard. mg/L	Total Fe mg/L	Total Mn mg/L	F mg/L	Dist. Cl res F = Free T = Total F mg/L	Dist. Cl res F = Free T = Total T mg/L	PO4 3-	Bank 1	Bank 2	Bank 3
1	7:00	19.1	1.496	1.367	1.185	0.013	7.22	15.1	282	350	0.82	0.234		0.405	0.035		0.045	0.35			7.50	280	110	0.01	0.014	0.78	1.48	1.84	1.29			
2	7:00	21.2	1.688	1.538	1.355	0.010	7.13	15.1	290	356	1.61	0.245		0.386	0.041		0.041	0.57			7.45	270	110	0.01	0.018	1.0	1.63	1.73	1.42			
3	7:00	21.2	1.665	1.520	1.203	0.007	7.15	14.9	278	352	0.45	0.233		0.392	0.023		0.046	0.52			7.37	270	122	0	0.019	0.77	1.22	1.44	1.30			
4	7:00	19.7	1.509	1.381	1.220	0.014	7.12	15.0	280	358	0.58	0.24		0.403	0.028		0.054	0.52			7.39	270	112	0	0.012	0.91	1.46	171	1.34			
5	7:00	19.1	1.499	1.375	1.069	0.013	7.19	15.0	278	360	0.75	0.231		0.391	0.037		0.039	0.54			7.46	274	110	0.01	0.015	0.8	1.39	1.63	1.37			
6	7:00	17.4	1.372	1.305	1.072	0.003	7.05	15.3	282	356	1.37	0.247		0.378	0.034		0.034	0.46			7.45	278	110	0.01	0.016	0.78	1.60	1.84	1.37			
7	7:00	18.1	1.437	1.255	1.143	0.017	7.00	15.2	272	356	1.34	0.236		0.373	0.026		0.033	0.47			7.23	284	114	0.01	0.013	0.77	1.39	1.75	1.17			
8	7:00	17.0	1.330	1.222	1.020	0.006	7.12	15.3	280	370	1.12	0.233		0.372	0.016		0.096	0.55				260	120	0	0.006	0.92	0.96	1.15	1.13			
9	7:00	18.0	1.383	1.258	1.113	0.011	7.26	15.2	270	368	1.06	0.245		0.396	0.057		0.036	0.50			7.40	272	170	0.01	0.017	0.74	1.39	1.51	1.28			
10	7:00	18.8	1.418	1.286	1.112	0.011	7.34	15.3	290	360	1.20	0.251		0.388	0.038		0.043	0.52			7.58	284	190	0.01	0.023	1.5	1.43	1.58	1.51			
11	7:00	19.4	1.451	1.323	1.068	0.012	7.36	14.7	290	352	1.15	0.247		0.379	0.037		0.038	0.57			7.52	286	180	0.01	0.024	1.03	1.31	1.42	1.2			
12	7:00	17.4	1.342	1.227	1.041	0.010	7.53	14.7	286	362	1.15	0.293		0.380	0.028		0.027	0.55			7.22	282	180	0.01	0.019	0.86	1.35	1.75	1.2			
13	7:00	16.2	1.236	1.174	0.970	0.006	7.38	14.9	292	372	1.16	0.286		0.387	0.028		0.036	0.53			7.57	280	180	0.01	0.022	0.77	1.40	1.80	1.4			
14	7:00	16.6	1.284	1.129	1.001	0.010	7.44	14.9	286	370	1.18	0.260		0.392	0.036		0.035	0.47			7.51	280	180	0.01	0.018	0.81	1.45	1.82	1.31			
15	7:00	18.4	1.426	1.273	1.088	0.010	7.28	14.0	280	370	0.79	0.268		0.376	0.027		0.028	0.36			7.44	260	180	0.01	0.016	0.85	1.31	1.53	1.26			
16	7:00	19.9	1.516	1.382	1.175	0.010	7.21	14.0	286	358	0.96	0.231		0.395	0.027		0.029	0.39			7.43	278	150	0.01	0.016	0.89	1.57	1.53	1.31			
17	7:00	15.0	1.121	1.074	1.011	0.007	7.21	15.3	282	356	1.19	0.26		0.290	0.046		0.031	0.44			7.40	272	140	0.01	0.017	0.4	1.37	4.86	0.20			
18	7:00	3.7	0.250	0.226	0.016	0.000	7.20	15.0	282	366	2.73	0.274		0.399	0.053		0.039	0.57			7.41	276	142	0.01	0.024	0.76	1.07	1.62	1.39			
19	7:00	11.4	0.777	0.698	0.698	0.010	7.17	14.4	280	360	0.95	0.227		0.241	0.210		0.199	0.44			7.44	270	138	0	0.061	0.68	1.50	1.27	1.56			
20	7:00	20.7	1.495	1.315	1.049	0.006	7.45	14.4	278	372	0.62	0.23		0.345	0.039		0.029	0.41			7.48	274	130	0	0.044	0.69	1.05	1.73	1.30			
21	7:00	18.3	1.286	1.180	0.993	0.007	7.51	14.1	272	372	1.47	0.252		0.338	0.163		0.150	0.40			7.17	274	120	0.01	0.055	0.26	1.38	1.38	1.36			
22	7:00	20.4	1.459	1.319	1.024	0.015	7.36	14.1	290	360	0.97	0.233		0.318	0.145		0.133	0.45			7.60	270	180	0	0.056	0.77	1.31	1.59	1.23			
23	7:00	21.3	1.498	1.380	1.166	0.004	7.29	14.3	280	358	0.94	0.238		0.343	0.108		0.089	0.38			7.36	274	162	0	0.063	0.73	1.55	1.83	1.47			
24	7:00	20.5	1.460	1.318	1.125	0.017	7.24	14.1	274	356	1.33	0.246		0.355	0.085		0.080	0.33			7.40	270	180	0	0.053	0.74	1.20	1.53	1.42			
25	7:00	20.5	1.433	1.291	1.077	0.006	7.23	14.3	274	362	1.09	0.245		0.363	0.086		0.056	0.55			7.39	274	170	0	0.072	0.85	1.30	1.58	1.39			
26	7:00	18.5	1.338	1.272	0.947	0.011	7.72	14.7	274	360	1.77	0.254		0.447	0.046		0.029	0.44			8.06	266	160	0	0.05	0.83	1.36	1.65	1.34			
27	7:00	14.8	1.012	0.918	0.777	0.004	7.56	14.5	280	364	1.63	0.247		0.352	0.052		0.045	0.40			7.80	266	160	0	0.061	0.79	1.43	1.58	1.43			
28	7:00	17.5	1.229	1.070	0.935	0.008	7.44	14.5	276	360	1.14	0.238		0.361	0.061		0.052	0.38			7.50	260	160	0	0.072	0.82	1.50	1.72	1.47			
29	7:00	17.7	1.241	1.121	0.990	0.012	7.97	14.2	286	360	0.9	0.244		0.339	0.128		0.470	0.40			8.19	276	110	0.01	0.047	0.85	1.56	1.76	1.56			
30	7:00	20.0	1.396	1.339	1.133	0.008	7.45	15.1	280	372	0.88	0.243		0.332	0.139		0.034	0.29			7.48	272	124	0.01	0.034	0.87	1.54	1.81	1.47			
31		21.1	1.606	1.544	1.178	0.012	7.32	14.6	280	370	1.43	0.252		0.385	0.043		0.035	0.32			7.48	272	106	0	0.035	0.73	1.52	1.76	1.46			
Total		559	41.65	38.08	31.95	0.290																										
Max		21.3	1.7	1.5	1.4	0.017	7.97	15.3	292	372	2.73	0.293	0.0	0.447	0.210	0.0	0.470	0.57	0.0	0.0	8.19	286	190	0.01	0.072	1.50	1.63	171.00	1.56	0.0	0.0	0.0
Min		3.7	0.3	0.2	0.0	0.000	7.00	14.0	270	350	0.45	0.227	0.0	0.241	0.016	0.0	0.027	0.29	0.0	0.0	7.17	260	106	0.00	0.006	0.26	0.96	1.15	0.20	0.0	0.0	0.0
Ave.		18.0	1.3	1.2	1.0	0.009	7.32	14.7	281	362	1.15	0.247	#DIV/0!	0.368	0.062	#DIV/0!	0.069	0.45	#DIV/0!	#DIV/0!	7.49	273	145	0.01	0.033	0.80	1.39	7.19	1.32	#DIV/0!	#DIV/0!	#DIV/0!

*Enter Final Reading Last Month

POINT OF APPLICATION

METER LOCATION:

1	12.5 %	Chlorine Solution Fed
2	19 %	Fluoride Solution Fed
3	40 %	Bisulfite Solution Fed
4	33 %	Phosphate Solution Fed
5	20 %	Sodium Permanganate Fed

I certify that the information in this report is complete and accurate to the best of my knowledge

Reported by: Cert or Req: 7337

Bacterials Sent: 10-2 & 3 2018

Date:

CHLORINATION

Type of Chlorine Used

Chlorine Gas

Calcium Hypochlorite ____%

Sodium Hypochlorite _12.5 %

Chlorine Test Kit Used: _____

FLUORIDATION

Type of Fluoride Used

Hydrofluosilicic Acid _19___%F

Sodium Fluoride ____%F

Other _____

Type of Test Instrument Used: