



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
**MONTHLY OPERATION REPORT - CLASS D WATER TREATMENT PLANT**

Issued under authority of 1976 PA 399 and the Administrative Rules, as amended. Administrative Rule R 325.11512 says in part, "A supplier of water where treatment is employed shall prepare an operation report on a form provided by the department for each month of operation." Failure to submit this form is a violation of the Act and may subject the water supply to enforcement penalties.

<b>Water Supply Information</b>		
City of Morenci		004490
Supply Name		WSSN
Kipp Scott	D-3, S-3	Jun
Operator In Charge (OIC)	System Classification	Month
F-2, S-3	Lenawee	2020
Certification Level of OIC	County	Year

<b>Distribution Chlorine Residual Monitoring</b> (Sampling Conducted per DBPR Monitoring Plan)	
Number of chlorine residual measurements taken during the month:	64 - Various Distribution Sites
Number of chlorine residual measurements that exceeded 4 mg/L:	0
Monthly average "free" chlorine residual:	0.83

<b>Comments</b>
Plant tap (which is N/A) residuals are take at the first hydrant downstream from the iron removal water treatment plant (approximately 300' downstream of the IRP filters).

<b>Certification</b>	
Kipp Scott - OIC	
Name and Title of Authorized Agent	
Signature	7/6/2020
	Date Submitted

<b>Send Completed Report To:</b>	<b>Staff and Contact Information</b>	
Department of Environmental Quality (DEQ)	Taryn Simon, EQA	517-257-7465
Office of Drinking Water and Municipal Assistance	Caitlin Bates, District Engineer;	517-262-6795
301 East Louis Glick Highway	Pat Brennan, District Sup'r;	517-581-2769
Jackson, Michigan, 49201	Fax;	517-780-7855
Or submit via email to	PEAS Hotline;	1-800-292-4706
<a href="mailto:EGLE-DWEH-Jackson@michigan.gov">EGLE-DWEH-Jackson@michigan.gov</a>		

Name of Supply

WSSN

Day of the month	Raw Pumpage in Million of Gallons per Day		Raw Pumpage Daily Total MGD	Raw Water To Iron Removal Plant MG	Raw Water To Iron Removal Plant MLbs	Comments
	Well 1	Well 2				
1	0.204	0.184	0.388	0.388	3.236	
2	0.181	0.085	0.266	0.266	2.218	
3	0.116	0.138	0.254	0.254	2.118	
4	0.186	0.093	0.279	0.279	2.327	
5	0.097	0.073	0.170	0.170	1.418	
6	0.103	0.075	0.178	0.178	1.485	
7	0.126	0.131	0.257	0.257	2.143	
8	0.108	0.074	0.182	0.182	1.518	
9	0.176	0.089	0.265	0.265	2.210	
10	0.100	0.080	0.180	0.180	1.501	
11	0.104	0.072	0.176	0.176	1.468	
12	0.119	0.124	0.243	0.243	2.027	
13	0.085	0.015	0.100	0.100	0.834	
14	0.115	0.124	0.239	0.239	1.993	
15	0.103	0.072	0.175	0.175	1.460	
16	0.183	0.094	0.277	0.277	2.310	
17	0.111	0.073	0.184	0.184	1.535	
18	0.112	0.135	0.247	0.247	2.060	
19	0.173	0.096	0.269	0.269	2.243	
20	0.118	0.144	0.262	0.262	2.185	
21	0.084	0.076	0.160	0.160	1.334	
22	0.169	0.100	0.269	0.269	2.243	
23	0.080	0.078	0.158	0.158	1.318	
24	0.114	0.083	0.197	0.197	1.643	
25	0.098	0.134	0.232	0.232	1.935	
26	0.099	0.077	0.176	0.176	1.468	
27	0.093	0.070	0.163	0.163	1.359	
28	0.136	0.129	0.265	0.265	2.210	
29	0.104	0.080	0.184	0.184	1.535	
30	0.187	0.090	0.277	0.277	2.310	
Total	3.784	2.888	6.672	6.672	55.644	
Avg	0.126	0.096	0.222	0.222	1.855	
Max	0.204	0.184	0.388	0.388	3.236	
Min	0.080	0.015	0.095	0.095	0.792	

Pumpage

Day of the month	Water in Millions of Gallons				Head Loss Thru Filter ft/psi	Oxidant/Chlorine		Plant Tap/Hydrant Chlorine Residual		IRP Filter Chlorine Residual		Plant Tap Analysis	
	Raw Water To Plant	Filter Backwash To WWTP	Total Water To System	Total Million Pounds		Cl <sub>2</sub> Applied Pounds	Cl <sub>2</sub> Applied mg/L	Free	Total	Free	Total	Iron as Fe mg/L	Manganese as Mn mg/L
1	0.388		0.388	3.236		14.0	4.33						
2	0.266		0.266	2.218		9.0	4.06						
3	0.254	0.020	0.234	2.118		9.0	4.25						
4	0.279		0.279	2.327		10.0	4.30						
5	0.170		0.170	1.418		5.0	3.53						
6	0.178		0.178	1.485		7.0	4.72						
7	0.257		0.257	2.143		10.0	4.67						
8	0.182		0.182	1.518		6.0	3.95						
9	0.265		0.265	2.210		9.0	4.07						
10	0.180	0.020	0.160	1.501		7.0	4.66						
11	0.176		0.176	1.468		6.0	4.09						
12	0.243		0.243	2.027		10.0	4.93						
13	0.100		0.100	0.834		3.0	3.60						
14	0.239		0.239	1.993		10.0	5.02						
15	0.175		0.175	1.460		6.0	4.11						
16	0.277		0.277	2.310		10.0	4.33						
17	0.184	0.020	0.164	1.535		7.0	4.56						
18	0.247		0.247	2.060		9.0	4.37						
19	0.269		0.269	2.243		10.0	4.46						
20	0.262		0.262	2.185		10.0	4.58						
21	0.160		0.160	1.334		6.0	4.50						
22	0.269		0.269	2.243		9.0	4.01						
23	0.158		0.158	1.318		6.0	4.55						
24	0.197	0.020	0.177	1.643		6.0	3.65						
25	0.232		0.232	1.935		9.0	4.65						
26	0.176		0.176	1.468		6.0	4.09						
27	0.163		0.163	1.359		6.0	4.41						
28	0.265		0.265	2.210		10.0	4.52						
29	0.184		0.184	1.535		6.0	3.91						
30	0.277		0.277	2.310		10.0	4.33						
Total	6.672	0.080	6.592	55.644		241.0	129.19						
Avg	0.222	0.020	0.220	1.855		8.0	4.31						
Max	0.388	0.020	0.388	3.236		14.0	5.02						
Min	0.100	0.020	0.100	0.834		3.0	3.53						



Day of the month	Treated Water Metered		Oxidant / Chlorine		Chlorine Residual mg/L						Comments	
	Million Gallons	Million lbs	Avail 99.8% Cl <sub>2</sub> Gas in lbs	Cl <sub>2</sub> Applied mg/L	Distribution (DPW)		Distribution System		Distribution System Location	Applied IRP Filters		
					Free	Total	Free	Total		Free		Total
1	0.388	3.236	14.0	4.33	0.86	0.91			597 W. Chestnut			
2	0.266	2.218	9.0	4.06	0.94	1.05			597 W. Chestnut			
3	0.254	2.118	9.0	4.25	0.61	0.68			597 W. Chestnut			
4	0.279	2.327	10.0	4.30	0.62	0.72			597 W. Chestnut			
5	0.170	1.418	5.0	3.53	1.00	1.09			597 W. Chestnut			
6	0.178	1.485	7.0	4.72	0.77	0.88			597 W. Chestnut			
7	0.257	2.143	10.0	4.67	0.77	0.83			597 W. Chestnut			
8	0.182	1.518	6.0	3.95	1.05	1.16			597 W. Chestnut			
9	0.265	2.210	9.0	4.07	0.69	0.77			597 W. Chestnut			
10	0.180	1.501	7.0	4.66	1.02	1.05			597 W. Chestnut			
11	0.176	1.468	6.0	4.09	0.84	0.92			597 W. Chestnut			
12	0.243	2.027	10.0	4.93	0.72	0.87			597 W. Chestnut			
13	0.100	0.834	3.0	3.60	1.21	1.30			597 W. Chestnut			
14	0.239	1.993	10.0	5.02	1.00	1.07			597 W. Chestnut			
15	0.175	1.460	6.0	4.11	0.75	0.77			597 W. Chestnut			
16	0.277	2.310	10.0	4.33	0.80	0.87			597 W. Chestnut			
17	0.184	1.535	7.0	4.56	0.87	0.95			597 W. Chestnut			
18	0.247	2.060	9.0	4.37	0.72	0.74			597 W. Chestnut			
19	0.269	2.243	10.0	4.46	0.94	0.98			597 W. Chestnut			
20	0.262	2.185	10.0	4.58	0.93	1.03			597 W. Chestnut			
21	0.160	1.334	6.0	4.50	1.14	1.20			597 W. Chestnut			
22	0.269	2.243	9.0	4.01	1.00	1.05			597 W. Chestnut			
23	0.158	1.318	6.0	4.55	1.12	1.21			597 W. Chestnut			
24	0.197	1.643	6.0	3.65	0.61	0.72			597 W. Chestnut			
25	0.232	1.935	9.0	4.65	0.42	0.43			597 W. Chestnut			
26	0.176	1.468	6.0	4.09	0.71	0.85			597 W. Chestnut			
27	0.163	1.359	6.0	4.41	0.65	0.68			597 W. Chestnut			
28	0.265	2.210	10.0	4.52	0.69	0.74			597 W. Chestnut			
29	0.184	1.535	6.0	3.91	0.99	1.05			597 W. Chestnut			
30	0.277	2.310	10.0	4.33	0.59	0.67			597 W. Chestnut			
Total	6.672	55.644	241.0			27.2						
Avg	0.222	1.855	8.0	4.33	0.83	0.91						
Max	0.388	3.236	14.0	5.02	1.21	1.30						
Min	0.095	0.834	3.0	3.53	0.42	0.43						

City of Morenci

004490

Jun 2020

Name of Supply

WSSN

Month

Year

2	Routine samples required	0	Repeat samples taken	43963.00	Cl <sub>2</sub> residuals from routine & repeat		
4	Routine samples taken	0	Repeat samples total colifor		Average	0.67	1.10
0	Routine samples positive	P/A	Analytical Method		Maximum	0.72	1.44
					Minumum	0.61	0.76

Distribution System - Routine Samples			Chlorine Residual (mg/L)	
Count	Sample Location	Date Collected	Free	Total
1	597 West Chestnut Street	06/03/20	0.72	1.44
2	118 Orchard Street	06/03/20	0.61	0.76
3	485 West Main - Well #1 - Raw	06/03/20	N/A	N/A
4	485 West Main - Well #2 - Raw	06/03/20	N/A	N/A
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
19				

Distribution System - Repeat Samples-Contact District if > one Positive			Chlorine Residual (mg/L)	
Count	Sample Location	Date Collected	Free	Total
1				
2				
3				
4				
5				
6				
7				
8				
9				

Other: Triggered Source Water Samples, entry point (plant tap) ...			Chlorine Residual (mg/L)	
Count	Sample Location	Date Collected	Free	Total
1				
2				
3				
4				
5				
6				
7				
8				
9				