

MONTHLY OPERATION REPORT OF THE CITY OF BENTON HARBOR WATER FILTRATION PLANT

SUPPLY NAME: CITY OF BENTON HARBOR | WSSN: 0600

For the month/year of
June-22

County:
Berrien

Abul D. Ahmed
Certified Operator

F-1
Water Plant Classification


Signature

revised 7/21/22

Operator-in-Charge
Title

Treatment Rate and Filter Data

1. Maximum Treatment Rate	<u>7.021</u>	million gallons per day
2. Approved Rated Plant Capacity	<u>8</u>	million gallons per day
3. Average Filter Run	<u>115.5</u>	hours
4. Average Filtration Rate	<u>0.45</u>	gallons per square ft. per minute
5. Maximum Filtration Rate	<u>2.33</u>	gallons per square ft. per minute
6. Average Wash Water Use	<u>0.01</u>	percent of treated water

Chemical Data

7. Chlorine on hand	<u>47853</u> lbs.	Est. Supply	<u>158</u> days
8. Alum (Al ³⁺) on hand	<u>48904</u> lbs.	Est. Supply	<u>189</u> days
9. Cost of All Chemicals	<u>183.09</u>	dollars per million gallons	
10. Total Power Cost	<u>0.00</u>	dollars per million gallons	

Remarks

	North Filter	South Filter
Number of filter confluence samples >0.3 NTU	<u>0</u>	<u>0</u>
Number of filter confluence samples collected	<u>69</u>	<u>90</u>
Percent of filter confluence samples >0.3 NTU	<u>0%</u>	<u>0%</u>
Number of filter confluence samples >1 NTU	<u>0</u>	<u>0</u>

Did any individual filter exceed:

1.0 NTU in two consecutive measurements taken 15 minutes apart?	<u>No</u>
If yes, attach specific filter(s) information and indicate required follow up status.	
0.5 NTU in two consecutive measurements taken 15 minutes apart after 4 hours of operation?	<u>No</u>
If yes, attach specific filter(s) information and indicate required follow up status.	
1.0 NTU in two consecutive measurements taken 15 minutes apart for 3 consecutive months?	<u>No</u>
If yes, attach specific filter(s) information and indicate required follow up status.	
2.0 NTU in two consecutive measurements taken 15 minutes apart for 2 consecutive months?	<u>No</u>
If yes, attach specific filter(s) information and indicate required follow up status.	
Did plant tap disinfectant residual fall below 0.2 ppm during the month?	<u>No</u>
If yes, indicate date(s) and duration on a separate sheet	
Was minimum C*T credit achieved for the entire month?	<u>Yes</u>
If no, indicate on a separate sheet the date(s) not achieved	
Was continuous POE chlorine residual monitoring equipment off-line during the month?	<u>No</u>
If yes, indicate date(s) and duration on a separate sheet	
Was continuous (every 15 minutes) filter monitoring equipment off-line during the month?	<u>No</u>
If yes, indicate date(s) and duration on a separate sheet.	

Distribution MGD

Total 32.409 Average 1.08 Max 1.847 Min 0.731

Comments

6/28/22 and 6/29/22 - water main break at Main Street and 8th Street. Treatment rate was increased to compensate for water loss, max low service pumping rate of 4,876 gpm.
7/21/22 - Revised MOR submitted. Chlorine mg/L calculation revised to reflect "as product" per EGLE recommendation.

DATE	Million Gallons Treated	Alum Added lbs	Alum Applied as Product mg/L <i>NSF Max 400 mg/L</i>	Alum as Al ⁺³ mg/L	Turbidity Units														
					Raw			Applied	North Filter			South Filter						Plant Tap	
					Number of Samples	Avg.	Max.	Avg.	Number of Samples	Avg.	Max.	Number of Samples	Avg.	Max.	No. of 2 hr Compliance periods	No. of 4 hr Compliance periods >0.3 NTU	No. of samples >0.3 NTU	Avg.	Max.
1	1.093	259	28.4	1.25	3	1.70	2.80	0.27	3	0.09	0.11	3	0.09	0.10	6	0	0	0.11	0.11
2	0.963	231	28.8	1.26	3	1.10	1.60	0.27	3	0.10	0.11	3	0.10	0.10	6	0	0	0.09	0.11
3	1.083	258	28.6	1.25	3	1.20	1.90	0.25	3	0.09	0.11	3	0.09	0.10	6	0	0	0.10	0.11
4	1.068	258	28.9	1.27	3	1.10	1.70	0.33	3	0.11	0.11	3	0.10	0.11	6	0	0	0.10	0.11
5	0.996	240	28.9	1.27	3	1.40	2.40	0.32	3	0.10	0.10	3	0.11	0.12	6	0	0	0.09	0.10
6	0.976	236	29.0	1.27	3	1.30	1.70	0.37	3	0.10	0.10	3	0.10	0.10	6	0	0	0.10	0.10
7	1.003	249	29.7	1.31	3	1.70	3.20	0.33	3	0.09	0.10	3	0.03	0.10	6	0	0	0.10	0.11
8	0.918	219	28.6	1.26	3	0.90	1.20	0.25	3	0.09	0.09	3	0.10	0.10	6	0	0	0.12	0.16
9	1.023	243	28.5	1.25	3	1.10	2.00	0.27	3	0.09	0.10	3	0.09	0.10	6	0	0	0.10	0.11
10	0.919	219	28.6	1.25	3	1.00	2.00	0.26	3	0.09	0.09	3	0.10	0.11	6	0	0	0.11	0.12
11	1.132	220	23.3	1.02	3	1.20	1.80	0.31	3	0.10	0.11	3	0.10	0.11	6	0	0	0.10	0.11
12	0.855	227	31.8	1.40	3	0.85	0.10	0.26	3	0.12	0.13	3	0.10	0.10	6	0	0	0.11	0.12
13	1.180	295	30.0	1.32	3	0.89	1.02	0.31	3	0.15	0.16	3	0.13	0.14	6	0	0	0.11	0.13
14	1.030	273	31.8	1.40	3	1.18	1.86	0.33	3	0.18	0.20	3	0.16	0.17	6	0	0	0.12	0.15
15	0.935	220	28.2	1.24	3	1.80	3.80	0.34				3	0.11	0.12	3	0	0	0.12	0.12
16	1.158	269	27.8	1.22	3	1.10	1.70	0.28				3	0.11	0.12	3	0	0	0.12	0.12
17	1.095	252	27.6	1.21	3	1.30	2.70	0.29				3	0.09	0.10	3	0	0	0.09	0.09
18	1.070	246	27.6	1.21	3	1.30	2.40	0.23				3	0.08	0.09	3	0	0	0.13	0.13
19	0.765	178	27.9	1.22	3	1.40	1.70	0.25				3	0.09	0.11	3	0	0	0.13	0.13
20	1.100	251	27.3	1.20	3	1.60	2.60	0.27				3	0.08	0.09	3	0	0	0.14	0.16
21	1.093	251	27.5	1.21	3	1.50	2.10	0.30				3	0.09	0.10	3	0	0	0.09	0.10
22	1.160	263	27.2	1.19	3	0.93	1.40	0.36	3	0.10	0.11	3	0.10	0.10	6	0	0	0.11	0.12
23	1.178	266	27.1	1.19	3	1.00	1.60	0.31	3	0.10	0.11	3	0.10	0.11	6	0	0	0.12	0.14
24	0.924	213	27.6	1.21	3	1.10	1.80	0.28	3	0.10	0.10	3	0.10	0.11	6	0	0	0.10	0.10
25	1.071	243	27.2	1.19	3	0.93	1.10	0.32	3	0.10	0.11	3	0.11	0.11	6	0	0	0.10	0.11
26	0.935	215	27.6	1.21	3	1.30	1.10	0.34	3	0.09	0.09	3	0.10	0.10	6	0	0	0.11	0.12
27	1.180	259	26.3	1.15	3	0.96	1.81	0.30	3	0.12	0.14	3	0.14	0.18	6	0	0	0.15	0.16
28	1.909	524	32.9	1.44	3	4.20	5.10	0.73	3	0.10	0.11	3	0.12	0.13	6	0	0	0.11	0.13
29	1.671	441	31.6	1.39	3	0.98	1.20	0.45	3	0.09	0.10	3	0.09	0.09	6	0	0	0.12	0.12
30	1.043	231	26.6	1.17	3	0.96	1.00	0.27	3	0.09	0.10	3	0.10	0.12	6	0	0	0.14	0.18
AVG	1.084			1.25	3	1.30		0.32		0.10			0.10					0.11	0.12
MAX	1.909			1.44	3	4.20	5.10	0.73		0.18	0.2		0.16	0.18				0.15	0.18
MIN	0.765			1.02	3	0.85		0.23		0.09			0.03					0.09	0.09
TOTAL	32.520	7749			90				69			90			159	0	0		

Date	pH		Total Hardness as CaCO ₃ mg/L		Total Alkalinity as CaCO ₃ mg/L		Non-Carb. Hardness as CaCO ₃ mg/L		Calcium as Ca ⁺⁺ mg/L		Magnesium as Mg ⁺⁺ mg/L		Chloride as Cl ⁻ mg/L		Conductivity umhos	Sulfate mg/L	CSMR
	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Tap	Tap	Tap
1	8.0	7.6	190	184	113	110	77	74	42	41	19	18		24	350	39	0.62
2	8.1	7.8	168	158	112	106	56	52	43	42	14	13		22	347	32	0.69
3	8.0	7.6	176	168	114	108	62	60	40	38	15	15		24	345	34	0.69
4	8.2	8.1	148	144	115	109	33	35	43	49	8	9		25	336	37	0.66
5	8.1	8.0	146	140	112	110	34	30	41	47	8	7		24	349	33	0.71
6	8.2	8.0	144	138	115	112	29	26	41	43	7	6	22	28	336	36	0.78
7	8.2	8.0	144	146	113	109	31	37	41	44	8	9		25	328	83	0.30
8	8.0	7.7	160	148	114	107	46	41	41	38	11	10		24	340	32	0.75
9	7.9	7.7	156	148	114	108	42	40	41	38	10	10		22	344	35	0.63
10	7.9	7.7	160	152	114	107	46	45	38	37	11	11		23	342	37	0.62
11	7.9	7.6	170	156	122	110	48	46	40	38	12	11		23	328	39	0.58
12	8.2	7.8	172	158	119	110	53	48	40	36	13	12		23	348	34	0.68
13	7.9	7.7	148	138	121	111	27	27	46	63	7	7	15	20	337	32	0.63
14	8.1	7.6	140	144	113	112	27	32	45	64	7	8		22	343	47	0.47
15	8.2	8.0	150	146	114	113	36	33	40	42	9	8		24	321	34	0.71
16	8.0	8.1	136	138	113	111	23	27	42	42	6	7		28	328	35	0.79
17	8.1	8.0	138	138	111	108	27	30	38	42	7	7		25	321	35	0.70
18	8.0	7.6	158	150	113	106	45	44	38	38	11	11		25	338	38	0.64
19	8.1	7.8	168	158	115	108	53	50	38	37	13	12		24	329	36	0.67
20	8.1	7.7	166	156	114	108	52	48	38	35	13	12		24	350	36	0.65
21	8.1	7.9	174	162	124	110	50	52	40	38	12	13		23	337	35	0.66
22	8.2	8.1	142	144	116	111	26	33	39	42	6	8		24	351	35	0.69
23	8.2	8.0	140	142	113	111	27	31	37	44	7	8	21	25	349	31	0.79
24	8.3	8.1	144	142	112	109	32	33	40	42	8	8		26	347	32	0.81
25	8.3	8.0	140	142	112	109	28	33	37	43	7	8		25	342	35	0.71
26	8.3	8.1	146	142	116	108	30	34	41	42	7	8		26	344	32	0.80
27	8.2	8.3	136	130	126	108	10	22	48	50	2	5		24	356	36	0.67
28	8.1	7.7	174	168	114	112	60	56	42	39	15	14		24	347	37	0.64
29	8.3	8.0	184	174	127	114	57	60	42	38	14	15		26	340	33	0.79
30	8.2	7.9	186	176	126	118	60	58	42	39	15	14		26	362	35	0.74

AVG	8.1	7.9	157	151	116	110	41	41	41	42	10	10	19	24	341	37	0.67
MAX	8.3	8.3	190	184	127	118	77	74	48	64	19	18	22	28	362	83	0.81
MIN	7.9	7.6	136	130	111	106	10	22	37	35	2	5	15	20	321	31	0.30

[illegible]

Date	Number of Samples	Colilert P/A	Heterotrophic Plate Count - CFU/mL		Temperature °C	
	Tap	Tap	Raw	Tap	Raw	Tap
1	1	A	17	0	14.7	11.5
2	1	A	20	0	17.1	12.5
3	1	A	17	0	14.3	13.5
4	1	A	23	0	15.0	14.0
5	1	A	33	0	15.0	16.0
6	1	A	27	0	13.0	15.0
7	1	A	51	0	13.0	15.0
8	1	A	18	0	10.7	10.0
9	1	A	33	0	9.8	12.5
10	1	A	30	0	10.2	11.0
11	1	A	23	0	13.8	10.5
12	1	A	17	0	15.7	16.0
13	1	A	10	0	11.0	13.0
14	1	A	13	2	11.0	10.0
15	1	A	22	0	16.0	15.0
16	1	A	90	0	19.0	17.0
17	1	A	30	7	16.0	12.0
18	1	A	79	0	17.8	18.0
19	1	A	41	0	16.5	18.5
20	1	A	29	0	18.3	16.5
21	1	A	34	0	17.8	16.5
22	1	A	65	0	20.0	18.0
23	1	A	58	0	20.0	18.0
24	1	A	56	0	19.0	20.0
25	1	A	74	0	19.0	20.0
26	1	A	41	0	20.0	20.0
27	1	A	27	1	17.3	20.0
28	1	A	121	0	15.2	16.5
29	1	A	63	0	20.3	16.5
30	1	A	63	0	20.8	18.5
AVG	1		41	0	15.9	15.4
MAX	1		121	7	20.8	20.0
MIN	1		10	0	9.8	10.0

	Distribution Flow MGD	OPP Applied as Product NSF Max 23 mg/L		Residual Orthophosphate mg/L						LSI goal ≥0
		lbs	mg/L	Tap	City Hall	Wolfs	Bait Shed	Sunny Spot	B&Z	Tap
1	1.114	89	9.6	4.16	3.24	3.29	3.12	3.24	3.12	-0.56
2	0.854	83	11.6	4.07						-0.34
3	1.100	106	11.6	3.44						-0.56
4	0.954	91	11.4	3.34						0.07
5	1.025	99	11.6	3.52						0.00
6	1.043	91	10.5	3.26						-0.05
7	0.993	95	11.5	3.01						-0.05
8	1.003	95	11.3	3.77	3.16	3.01	3.10	3.24	3.06	-0.54
9	1.023	84	9.9	3.69						-0.48
10	0.913	93	12.2	3.88						-0.53
11	0.913	95	12.5	3.48						-0.61
12	0.855	90	12.6	4.43						-0.32
13	1.180	98	10.0	3.24						-0.23
14	1.030	89	10.4	3.05						-0.40
15	0.935	118	15.1	3.48	3.28	3.02	3.11	3.08	3.04	-0.05
16	1.111	105	11.3	3.90						-0.01
17	1.051	132	15.1	3.80						-0.14
18	0.731	82	13.4	4.05						-0.06
19	1.100	121	13.1	3.62						-0.05
20	1.137	99	10.4	3.32						-0.12
21	1.001	95	11.4	3.27						-0.07
22	1.239	138	13.3	3.26	3.70	3.41	3.73	3.40	3.70	0.01
23	0.919	104	13.6	3.97						0.03
24	1.181	137	13.9	4.00						0.04
25	0.769	88	13.7	4.20						0.05
26	1.197	123	12.3	3.89						0.13
27	1.847	215	13.9	4.08						0.41
28	1.794	205	13.7	4.05						-0.36
29	1.123	111	11.8	4.32	3.47	4.09	3.69	3.06	3.39	-0.06
30	1.276	148	13.9	4.26						-0.10
AVG	1.080	111	12.2	3.73	3.37	3.36	3.35	3.20	3.26	-0.17
MAX	1.847	215	15.1	4.43	3.70	4.09	3.73	3.40	3.70	0.41
MIN	0.731	82	9.6	3.01	3.16	3.01	3.10	3.06	3.04	-0.61
TOTAL	32.409	3319								

Date	Free Chlorine Residual mg/L															
	City Hall		Wolf Marine		Bait Shed		Sunny Spot		B&Z							
1	1.81		1.27		1.68		0.20		1.01							
2																
3																
4																
5																
6																
7																
8	1.72		1.60		1.70		0.74		0.88							
9																
10																
11																
12																
13																
14																
15	1.48		1.38		1.39		0.27		0.90							
16																
17																
18																
19																
20																
21																
22	1.96		1.43		1.69		0.40		1.20							
23																
24																
25																
26																
27																
28																
29	2.20		1.75		1.42		0.33		0.87							
30																
31																

DISTRIBUTION SAMPLES BACTERIOLOGICAL SUMMARY			
Chlorine Residuals, mg/L	AVG	MAX	MIN
	1.25	2.20	0.20
Total Number of routine distribution samples analyzed	25		
Total number of positive routine distribution samples	0		
Total number of routine distribution samples required	10		
Total number of check samples	0		
Total number of positive check samples	0		

Benton Harbor WTP
CT Calculations June 2022

Date	Peak	Segment 2 - Flocculation (2)				Segment 3 - Sedimentation (2)			
	Low Service Flow	In Use	Residual	pH	Temp.	In Use	Residual	pH	Temp.
	gpm	%	mg/L		C	%	mg/L		C
6/1/2022	2540	100	1.95	7.7	13.2	100	1.55	7.7	13.2
6/2/2022	2683	100	1.90	7.7	14.3	100	1.47	7.7	14.3
6/3/2022	2528	100	1.89	7.8	14.3	100	1.54	7.8	14.3
6/4/2022	2579	100	1.82	8.2	14.1	100	1.42	8.2	14.1
6/5/2022	2576	100	1.83	8.0	15.0	100	1.45	8.0	15.0
6/6/2022	2746	100	1.93	8.0	13.8	100	1.44	8.0	13.8
6/7/2022	2509	100	1.83	8.0	13.3	100	1.48	8.0	13.3
6/8/2022	2494	100	1.94	7.9	11.0	100	1.63	7.9	11.0
6/9/2022	2632	100	1.84	7.8	9.5	100	1.61	7.8	9.5
6/10/2022	2419	100	1.87	7.8	8.7	100	1.68	7.8	8.7
6/11/2022	2696	100	1.74	7.8	9.1	100	1.52	7.8	9.1
6/12/2022	2584	100	1.60	7.8	13.7	100	1.35	7.8	13.7
6/13/2022	2562	100	1.37	7.7	13.9	100	1.19	7.7	13.9
6/14/2022	2724	100	1.07	7.8	11.0	100	0.99	7.8	11.0
6/15/2022	2164	100	1.15	8.0	15.4	100	0.86	8.0	15.4
6/16/2022	2203	100	1.12	8.0	17.9	100	0.90	8.0	17.9
6/17/2022	2394	100	2.12	8.0	19.2	100	0.93	8.0	19.2
6/18/2022	2488	100	2.48	7.9	19.7	100	2.00	7.9	19.7
6/19/2022	2672	100	2.22	7.9	17.0	100	2.18	7.9	17.0
6/20/2022	2597	100	2.21	7.7	14.0	100	2.01	7.7	14.0
6/21/2022	2827	100	2.07	7.9	18.1	100	1.91	7.9	18.1
6/22/2022	2387	100	1.62	8.1	19.4	100	1.12	8.1	19.4
6/23/2022	2426	100	1.82	8.1	20.4	100	1.47	8.1	20.4
6/24/2022	2387	100	2.07	8.1	19.7	100	1.73	8.1	19.7
6/25/2022	2446	100	2.10	8.1	19.1	100	1.48	8.1	19.1
6/26/2022	2390	100	1.92	8.1	19.1	100	1.68	8.1	19.1
6/27/2022	2457	100	1.74	8.1	20.2	100	1.37	8.1	20.2
6/28/2022	4876	100	2.46	7.9	14.3	100	1.94	7.9	14.3
6/29/2022	2413	100	2.03	8.0	19.5	100	1.76	8.0	19.5
6/30/2022	2402	100	2.16	8.0	20.5	100	1.42	8.0	20.5

Benton Harbor WTP
CT Calculations June 2022

Date	Seg2 CT-M	Seg2 CT-R	Seg2 Ratio	Seg3 CT-M	Seg3 CT-R	Seg3 Ratio	Total Ratio	Total Inact.
	mg/L-min	mg/L-min	M/R	mg/L-min	mg/L-min	M/R	M/R	Log
6/1/2022	181	21	8	49	21	2	11	5.4
6/2/2022	167	20	8	44	19	2	11	5.4
6/3/2022	176	20	9	49	20	2	11	5.5
6/4/2022	166	24	7	44	23	2	9	4.5
6/5/2022	167	21	8	45	20	2	10	5.2
6/6/2022	181	23	8	46	22	2	10	5.0
6/7/2022	173	23	7	48	23	2	10	4.8
6/8/2022	174	27	6	50	26	2	8	4.2
6/9/2022	179	28	6	54	28	2	8	4.1
6/10/2022	163	30	5	50	30	2	7	3.6
6/11/2022	159	29	5	48	28	2	7	3.6
6/12/2022	147	21	7	43	20	2	9	4.6
6/13/2022	119	19	6	35	19	2	8	4.0
6/14/2022	117	24	5	37	23	2	7	3.3
6/15/2022	123	19	7	32	18	2	8	4.1
6/16/2022	120	16	8	33	15	2	10	4.9
6/17/2022	209	16	13	31	14	2	15	7.7
6/18/2022	235	15	15	65	15	4	20	9.9
6/19/2022	196	18	11	66	18	4	15	7.3
6/20/2022	201	21	10	63	20	3	13	6.4
6/21/2022	173	17	10	55	16	3	14	6.9
6/22/2022	160	16	10	38	15	3	13	6.4
6/23/2022	177	15	12	49	14	3	15	7.7
6/24/2022	204	16	13	59	15	4	17	8.4
6/25/2022	202	17	12	49	16	3	15	7.7
6/26/2022	189	16	12	57	16	4	15	7.6
6/27/2022	167	15	11	45	14	3	14	7.2
6/28/2022	119	22	5	32	21	2	7	3.4
6/29/2022	198	15	13	59	15	4	17	8.4
6/30/2022	212	15	15	48	14	3	18	9.0

Date	Filter Number											
	1	2	3	4	5	6	7	8	9	10	11	12
1					0.03	0.02					0.03	0.02
2					0.02	0.02					0.02	0.02
3					0.03	0.02	0.04	0.04				
4					0.03	0.02	0.03	0.03				
5					0.03	0.02	0.03	0.03				
6					0.03	0.02	0.03	0.02				
7					0.02	0.01	0.03	0.02				
8					0.03	0.02	0.03	0.02				
9					0.02	0.02	0.03	0.02				
10					0.02	0.02	0.03	0.02				
11					0.02	0.02	0.03	0.02			0.05	0.03
12							0.03	0.02			0.02	0.02
13							0.03	0.02			0.02	0.02
14							0.03	0.02			0.02	0.02
15							0.05	0.03			0.02	0.02
16							0.05	0.02			0.02	0.02
17							0.05	0.02			0.02	0.02
18							0.03	0.02			0.02	0.02
19							0.03	0.03			0.02	0.02
20							0.03	0.02			0.02	0.03
21					0.05	0.03	0.03	0.02			0.03	0.05
22					0.03	0.02					0.02	0.02
23					0.03	0.02					0.03	0.03
24					0.03	0.02					0.03	0.03
25					0.03	0.02					0.02	0.02
26					0.03	0.02					0.02	0.02
27					0.04	0.02					0.03	0.06
28					0.04	0.04	0.11	0.05			0.04	0.04
29					0.05	0.04					0.04	0.03
30					0.04	0.03					0.04	0.03
MAX					0.05	0.04	0.11	0.05			0.05	0.06

ENTRY POINT TO THE DISTRIBUTION SYSTEM WQP

Daily Excursions	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
pH	0	1	0	0	0	0	1							0
Ortho-phosphate	0	0	0	0	0	0	0							0
# Days with Excursions (9 days allowed per 6 months)	0	1	0	0	0	0	1							0

EPTDS WQP Range

pH minimum of 7.2 s.u.

Ortho-phosphate minimum of 3.0 mg/L as PO₄**DISTRIBUTION WQP 10 Samples Quarterly**

Daily excursions	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
pH	0	0	0	0	0	0	0							0
Ortho-phosphate	1	0	0	0	0	0	1							0
# Days with Excursions (9 days allowed per 6 months)	1	0	0	0	0	0	1							0

Distribution WQP Range

pH minimum of 7.2 s.u.

Ortho-phosphate minimum of 3.0 mg/L as PO₄