TN0056626 AMY

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ENVIRONMENT & CONSERVATION
CHATTANOOGA FIELD OFFICE

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATIC
DIVISION OF WATER POLLUTION CONTROL

REPORT OF OPERATION OF WATEWATER TREATMENT

PLANT **BCCX**
COUNTY Bledsoe
MONTH OF **October** 2016

DATE	RAINFALL (0.1")	INFLUENT FLOW (MGD)	EFFLUENT FLOW (MGD)	BYPASSED	TEMPERATURE INFLUENT (°C)	TEMPERATURE EFFLUENT (°C)	5 Day CBOD / BOD				Ammonia Nitrogen				Suspended Solids				Settleable Solids		Dissolved Oxygen		pH		Phosphorus		Nitrogen		Final Effluent			
							INFLUENT (mg/L)	EFFLUENT (mg/L)	EFFLUENT (POUNDS)	PRECENT REMOVAL	INFLUENT (mg/L)	EFFLUENT (mg/L)	EFFLUENT (POUNDS)	PRECENT REMOVAL	INFLUENT (mg/L)	EFFLUENT (mg/L)	EFFLUENT (POUNDS)	PRECENT REMOVAL	INFLUENT (mg/L)	EFFLUENT (mg/L)	INFLUENT (mg/L)	EFFLUENT (mg/L)	INFLUENT (STANDAR D UNITS)	EFFLUENT (STANDARD UNITS)	INFLUENT (mg/L)	EFFLUENT (mg/L)	INFLUENT (mg/L)	EFFLUENT (mg/L)	E. COLI	Total Chlorine	Toxicity	Oil & Grease
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		32
1	0.0	0.317	0.291	0	26	28																										
2	0.0	0.332	0.293	0	28	29																										
3	0.0	0.341	0.304	0	27	28	182	1	2.5	99	18	0.11	0.3	99	140	0.4	1.0	100	28	0.2		7.1		7.2	6	2.7	29	1.4	1			
4	0.0	0.341	0.299	0	27	27														0.1		7.3		7.1								NO
5	0.0	0.337	0.299	0	28	27	139	1	2.5	99	14	0.06	0.1	100	95	0.6	1.5	99	23	0.1		7.0		7.2					2			
6	0.0	0.342	0.305	0	27	26														0.1		7.7		7.2								NO
7	0.0	0.317	0.309	0	26	27	240	1	2.6	100	19	0.04	0.1	100	160	0.2	0.5	100	28	0.2		6.8		7.0					1			
8	0.0	0.288	0.293	0	27	26																										
9	0.0	0.295	0.282	0	26	25																										
10	0.0	0.361	0.348	0	29	28	135	1	2.9	99	17	0.03	0.1	100	115	2.8	8.1	98	26	0.1		6.6		7.2	5	3.9	31	1.8	43			
11	0.0	0.371	0.314	0	27	28														0.3		7.7		7.5								NO
12	0.0	0.383	0.326	0	26	27	198	1	2.7	99	15	0.02	0.1	100	165	1.2	3.3	99	28	0.1		7.6		7.3					11			
13	0.0	0.371	0.322	0	28	27														0.1		8.0		7.4								NO
14	0.0	0.366	0.329	0	26	27	205	1	2.7	100	19	0.04	0.1	100	175	1.6	4.4	99	31	0.1		6.2		7.2					1			
15	0.0	0.402	0.327	0	26	27																										
16	0.0	0.439	0.324	0	27	27																										
17	0.0	0.395	0.390	0	26	27	105	7	21.8	94	15	0.08	0.3	99	360	20.4	66.4	94	39	0.9		6.8		7.3	5	2.5	25	1.7	22			
18	0.0	0.405	0.400	0	26	27														0.3		6.1		7.3								NO
19	0.0	0.432	0.427	0	26	27	191	3	11.8	98	21	0.16	0.6	99	205	12.5	44.5	94	29	0.1		8.0		7.3					9			
20	0.5	0.331	0.301	0	25	27														0.1		7.3		7.4								NO
21	0.0	0.420	0.374	0	27	26	137	1	3.1	99	15	0.17	0.5	99	110	7.8	24.3	93	31	0.1		7.6		7.5					1			
22	0.0	0.321	0.295	0	26	27																										
23	0.0	0.331	0.295	0	26	26																										
24	0.0	0.377	0.328	0	26	26	168	1	2.7	99	16	0.08	0.2	99	105	0.4	1.1	100	30	0.1		7.6		7.4	6	4.7	20	2.1	1			
25	0.0	0.365	0.338	0	26	26														0.2		7.6		7.5								NO
26	0.0	0.344	0.307	0	26	27	211	2	5.1	99	16	0.08	0.2	99	220	6.6	16.9	97	39	0.1		7.6		8.1					5			
27	0.0	0.328	0.282	0	27	26														0.1		7.1		7.5								NO
28	0.0	0.362	0.314	0	27	27	168	1	2.6	99	16	0.16	0.4	99	210	3.2	8.4	98	35	0.3		7.8		7.5					3			
29	0.0	0.310	0.281	0	27	26																										
30	0.0	0.306	0.267	0	26	27																										
31	0.0	0.272	0.245	0	26	26	172	1	2.0	99	17	0.33	0.7	98	265	1.4	2.9	99	34	0.1		8.0		7.6					1			
TOTAL	0.5	10.902	9.809	0																									101	MNR	Annual	
AVERAGE		0.352	0.316	0	27	27	173	2	5.0	99	17	0.1	0.3	99.374	179	5	14.1	98	31	0.2	#DIV/0!	7.3	#####	7.4	5.45	3.5	26	1.8	8	MNR		
MAXIMUM		0.439	0.427	0	29	29	240	7	21.8	100	21	0.3	0.7	99.867	360	20	66.4	100	39	0.9	0.0	8.0	0.0	8.1	5.8	4.7	31	2.1	43	MNR		N/A
MINIMUM		0.272	0.245	0	25	25	105	1	2.0	94	14	0.02	0.1	98.059	95	0.2	0.5	93	23	0.1	0.0	6.1	0.0	7.0	5.0	2.5	20	1.4	1	MNR		N/A

REMARKS

1 = CBOD EFFLUENT INSUFFICIENT
1 = CBOD INFLUENTEXCESSIVE DEPLETION

CERTIFIED OPERATOR SIGNATURE Joes Curtis CERT NO. 1675 GRADE 4
RDA 1663

CN-0972 (rev. 1-95)

AMY 12-2-16
MJB 12/5/16
file: BCCX 2016 (Bledsoe)

BCCX Wastewater Plant
Permit No. TN0056626
1045 Horsehead Road
Pikeville, TN 37367
(423) 881-6491

October 10, 2016

TDEC
Division of Water Resources
1301 Riverfront Parkway Suite#206
Chattanooga, TN 37402

Attention: Angela Young

Dear Ms. Young,

We have violated our phosphorus permit limits for the month of October 2016.We are trying multiple different techniques through the guidance and advise of sanitaire, the company who supplied the SBR's as well as an engineering firm (QE_2) to reduce our nitrogen and phosphorus output. We suspect the high flows and short hydraulic detention times are affecting our ability to sustain an appropriate nitrifying bacteria population as well as maintain anaerobic conditions for removal of phosphorus through the luxury uptake process.

Sincerely,

Joe Curtis

Joe Curtis

BCCX Plant Operator, Grade IV

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