Receiving Stream: Reedy Meadow Brook

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER POLLUTION CONTROL

MONTHLY OPERATION AND MAINTENANCE REPORT

Permit # MA0004936 Federal # MA0004936

Plant: Patriot Beverages
Town or City: Littleton
Month: OCTOBER
Chief Operator: James Drapeau
Assistant Chief Operator: Michale Zaborowski

Region: 1
County: Middlesex
If Contract Operator, Company:

YEAR 2018

Certification of Report: [signature] Date: 11/9/18

	Weather			Sewage Flow (MGD)				Grit&	Disinfection				Settleable Solids ml/L				pH					
		Amb.	Inf. c'	*	**			screen	%/	Cl2				Pri.	Sec.	Fin.	Influent			Effluent		
	Rain	Temp.	Temp.	Max	Min	Total	bypass	Cu.Ft.	24hrs	Res			Raw	Eff.	Eff.	Eff.	High		Low	High		Low
Date	1	2	3	4	5	6	7	8	9	10			11	12	13	14	15	16	16	17		18
1	0.08					0.030															8.3	
2	0.59					0.073															8.2	
3	0.05					0.073															8.2	
4	0.01					0.066															8.2	
5	0.00					0.092															8.2	
6	0.00					0.094															8.1	
7	0.08					0.052															8.1	
8	0.02					0.020															8.1	
9	0.00					0.049															8.2	
10	0.00					0.064															8.2	
11	1.33					0.082															8.2	
12	0.00					0.080															8.2	
13	0.13					0.078															8.2	
14	0.00					0.059															8.3	
15	0.15					0.054															8.3	
16	0.01					0.078															8.3	
17	0.02					0.035															8.3	
18	0.01					0.059															8.3	
19	0.00					0.046															8.2	
20	0.00					0.068															8.2	
21	0.02					0.046															8.2	
22	0.00					0.068															8.2	
23	0.21					0.071															8.2	
24	0.01					0.078															8.2	
25	0.00					0.090															8.2	
26	0.00					0.048															8.2	
27	1.11					0.074															8.2	
28	0.06					0.034															8.2	
29	0.24					0.050															8.2	
30	0.00					0.074															8.3	
31	0.00					0.087															8.2	
Total	4.13					1.973																
Avg	0.14					0.065																
Max	1.33					0.094															8.3	
Min	0.00					0.020															8.1	

4 *Total "Maximum" Flow 5 **Total "Minimum" Flow

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Plant: **Very Fine Products** YEAR 2018 Month: OCTOBER

	CASS BASIN #1 AERATION TANK						CASS BASIN #2 AERATION TANK					
Date	D.O.	30 min set. Test	MLSS	MLVSS	RAS	RSS	D.O.	30 min set. Test	MLSS	MLVSS	RAS	RSS
1		140	2454					160	2904			
2		130	2606	1718				150	3016	2046		
3		120	2600	1724				150	3240	2204		
4		110	2608	1774				150	3000	2024		
5		110						140				
6												
7												
8			3114	2076					2658	1824		
9		130	3222	2188				130	2716	1864		
10		180						120	2980			
11								130				
12												
13			3148						2986			
14		140		3540				150				
15		140	2714						2858			
16		125	3592	2288				135	2972	1946		
17		140						140				
18		130	2718					170	3394			
19								160	3488	2320		
20												
21		140	3086					150	3160			
22		90	2220	1490				140	3062	2060		
23		90	2486					140	2496			
24		90	2518	1646				130	3028	2040		
25												
26		100	2692	1794				130	2838			
27												
28		125	2478					130	2718			
29												
30		110	2768					125	2820			
31												
Total												
Avg		123	2766	2024				142	2965	2036		
Max		180	3592	3540				170	3488	2320		
Min		90	2220	1490				120	2496	1824		

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MONTHLY OPERATION AND MAINTENANCE REPORT

Plant: **Very Fine Products** YEAR: 2018 Month: OCTOBER

Date	Biochemical Oxygen Demand (BOD) mg/L							Suspended Solids (TSS) mg/L								Other Effluent Parameters		
	raw 55	pri. eff. 56	57	sec.eff 58	59	final 60	61	raw 62	63	pri. eff. 64	65	sec. eff. 66	67	final 68	Cl2 res. ug/l 69	Alluminum mg/l 70	oil & gr. mg/l 71	e-coli/ strep 72
1																		
2																		
3						<2.0								6.00		0.029		328/0
4															0			
5																		
6																		
7																		
8																		
9						<2.0								5.00				
10															0			
11																		
12																		
13																		
14																		
15																		
16						<2								6				
17															0			12/X
18																		
19																		
20																		
21																		
22																		
23						3								7	0			
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Total																		
Avg						<2								6	0.00	0.029		63/0
Max						3								7	0.00	0.029		328/0
Min						<2								5	0.00	0.029		12/0

Sample Information: per permit BOD & TSS samples are FLOW composited over 24 hours

Remember ALL VIOLATIONS of your permit or O&M regulations must be explained

ON THE BACK OF PAGE ONE EXPLAIN ANY VIOLATIONS OR OTHER SITUATIONS WHICH YOU FEEL WILL AID THIS OFFICE.

IN HOUSE DATA

OCTOBER

Phosourous mg/l	P in lbs	outfall eff temp	instream temp	eff D.O.	NH3	NH3 as N	N lbs	
								1
								2
0.11	0.07	74			<0.1	0.10	0.06	3
				9.10				4
								5
								6
								7
								8
0.10	0.04	74						9
				9.30				10
								11
								12
								13
								14
								15
0.18	0.12	69		9.20	<0.1	0.10	0.06	16
								17
								18
								19
								20
								21
								22
0.17	0.10							23
		66	64	9.32				24
								25
								26
								27
								28
								29
								30
								31
0.14	0.08	71	64	9.23		0.10	0.06	Avg
0.18	0.12	74	64	9.32		0.10	0.06	Max
0.10	0.04	66	64	9.10		0.10	0.06	Min

Phosphorous rolling average pounds

	mon avg	rolling avg
may	0.05	0.05
june	0.05	0.05
july	0.05	0.05
august	0.06	0.05
september	0.11	0.06
october	0.16	0.08
november	0.06	0.08
december	0.08	0.08
january	0.14	0.08
february	0.21	0.10
march	0.1	0.10
april	0.05	0.09
may	0.11	0.09
june	0.13	0.10
july	0.07	0.10
august	0.09	0.10
september	0.1	0.10
october	0.08	0.09
november		
december		
january		
february		
march		
april		
may		