



Brunswick / Glynn County Joint Water & Sewer Commission

Jul. 2019

WWTF Capacity Rating

	Weekly Limit		Monthly Limit		Current Average		% OF CAPACITY
ACADEMY CREEK WWTF	16.9	MGD	13.5	MGD	6.26	MGD	46.37% <i>*1 (I & I PROBLEM)</i>
DUNBAR CREEK WWTF	5	MGD	4	MGD	2.839	MGD	70.98% <i>*2 (I & I PROBLEM)</i>
SOUTH PORT WWTF	1.875	MGD	1.5	MGD	0.357	MGD	23.80%

- NOTE *1: Academy Creek WWTF has an I & I Problem, which if fixed would reduce the amount of flow. There are several projects under way to repair the system and reduce the I & I Problem.*
- NOTE *2: Dunbar Creek WWTF has an "EXTREME" I & I Problem, which if fixed would reduce the amount of flow. There are several projects under way to repair the system and reduce the I & I Problem.*

ACADEMY CREEK WPCP
 CITY OF BRUNSWICK
 PERMIT #GA0025313

FINAL EFFLUENT COMPOSITE SAMPLES

JULY 2019	FLOW MGD	7-DAY AVG	BOD mg/L	7-DAY AVG	BOD LBS/DAY	7-DAY AVG	TSS mg/L	7-DAY AVG	TSS LBS/DAY	7-DAY AVG	COD mg/L	7-DAY AVG	COD LBS/DAY	7-DAY AVG
1	6.08		8		406		14		710		52		2637	
2	5.95		8		397		10		496		61		3027	
3	6.15		9		462		9		462		62		3180	
4	5.82		7		340		9		437		71		3446	
5	6.60		7		385		11		605		66		3633	
6	6.29													
7	6.12	6.14		8		398		11		542		62		3185
8	6.23	6.17	8	8	416	400	11	10	572	514	72	66	3741	3405
9	6.42	6.23	8	8	428	406	11	10	589	533	64	67	3427	3485
10	6.08	6.22	8	8	406	395	8	10	406	522	60	67	3042	3458
11	5.97	6.24	10	8	498	427	11	10	548	544	61	65	3037	3376
12	6.27	6.20	8	8	418	433	13	11	680	559	60	63	3138	3277
13	6.87	6.28		8		433		11		559		63		3277
14	5.69	6.22		8		433		11		559		63		3277
15	5.95	6.18	8	8	397	429	12	11	595	564	52	59	2580	3045
16	5.89	6.10	0.28	7	14	347	9	11	442	534	56	58	2751	2910
17	6.04	6.10	6	6	302	326	8	11	403	534	56	57	2821	2865
18	6.38	6.16	6	6	319	290	7	10	372	499	58	56	3086	2875
19	6.15	6.14	6	5	308	268	9	9	462	455	53	55	2718	2791
20	6.93	6.15		5		268		9		455		55		2791
21	6.58	6.27		5		268		9		455		55		2791
22	6.03	6.29	5	5	251	239	11	9	553	446	59	56	2967	2869
23	6.07	6.31	9	6	456	327	13	10	658	490	61	57	3088	2936
24	6.96	6.44	13	8	755	418	14	11	813	572	68	60	3947	3161
25	6.38	6.44	6	8	319	418	11	12	585	614	62	61	3299	3204
26	6.15	6.44	8	8	410	438	13	12	667	655	56	61	2872	3235
27	7.04	6.46		8		438		12		655		61		3235
28	6.50	6.45		8		438		12		655		61		3235
29	6.25	6.48	10	9	521	492	9	12	469	638	57	61	2971	3236
30	6.12	6.49	8	9	408	483	9	11	459	599	51	59	2603	3139
31	6.13	6.37	6	8	307	393	9	10	460	528	55	56	2812	2911
TOTAL	194.09													
AVERAGE	6.26	6.28	7	7	391	384	10	11	547	547	60	60	3117	3119
MAXIMUM	7.04	6.49	13	9	755	492	14	12	813	655	72	67	3947	3485
MINIMUM	5.69	6.10	0	5	14	239	7	9	372	446	51	55	2580	2791

FINAL EFFLUENT COMPOSITE SAMPLES

JULY 2019	FLOW MGD	7-DAY AVG	BOD 7-DAY AVG mg/L	BOD 7-DAY AVG LBS/DAY	TSS 7-DAY AVG mg/L	TSS 7-DAY AVG LBS/DAY	D.O. mg/L	TEMP OUTFALL	pH SU	Enterococci COLIFORM #/100 ml	7-DAY GEO MEAN					
1	2.891		3.0	72.3	2.0	48.2	7.15	28.1	7.34	184						
2	3.052		3.0	76.4	2.0	50.9	7.40	28.3	7.48							
3	3.095		2.0	51.6	2.0	51.6	7.48	28.6	7.54	10						
4	3.377						7.59	28.3	7.53	1						
5	3.502						7.75	28.5	7.30							
6	3.450						7.69	28.4	7.31							
7	2.470	3.120		2.7	66.8	2.0	50.3	7.59	28.5	7.28	12					
8	2.803	3.107	2.0	2.3	46.8	58.2	1.0	1.7	23.4	42.0	7.32	28.1	7.25		3	
9	2.705	3.057	1.0	1.7	21.4	39.9	1.0	1.3	22.6	32.5	7.72	28.6	7.55	34	7	
10	2.800	3.015		1.5	34.1	34.1	1.0	1.0	23.0	23.0	7.28	28.7	7.08		6	
11	2.738	2.924	1.0	1.3	22.8	30.3	1.0	1.0	22.8	22.9	7.69	28.6	7.61	2	8	
12	2.868	2.833		1.3	30.3	30.3	1.0	1.0	22.9	22.9	7.22	28.4	7.34		8	
13	2.811	2.742		1.3	30.3	30.3	1.0	1.0	22.9	22.9	7.67	28.1	7.52		8	
14	2.810	2.791		1.3	30.3	30.3	1.0	1.0	22.9	22.9	7.43	28.2	7.43		8	
15	2.725	2.780	2.0	1.3	45.5	29.9	2.0	1.3	45.5	30.3	7.82	28.3	7.44		8	
16	2.729	2.783	3.0	2.0	68.3	45.5	1.0	1.3	22.8	30.3	7.01	28.5	7.15	1	1	
17	2.634	2.759		2.0	45.5	45.5	1.3	1.3	30.3	30.3	7.04	29.9	7.10		1	
18	2.757	2.762	3.0	2.7	69.0	60.9	1.0	1.3	23.0	30.4	7.25	28.5	7.10	8	3	
19	2.820	2.755		2.7	60.9	60.9	1.3	1.3	30.4	30.4	7.56	28.6	6.99		3	
20	2.909	2.769		2.7	60.9	60.9	1.3	1.3	30.4	30.4	7.69	27.9	7.03		3	
21	2.589	2.738		2.7	60.9	60.9	1.3	1.3	30.4	30.4	7.53	27.0	7.13		3	
22	2.650	2.727	3.0	3.0	66.3	67.9	2.0	1.3	44.2	30.0	7.11	28.4	6.55		3	
23	2.651	2.716	3.0	3.0	66.3	67.2	2.0	1.7	44.2	37.1	8.11	28.7	7.39	1	3	
24	2.833	2.744		3.0	67.2	67.2	1.7	1.7	37.1	37.1	7.62	28.5	7.36		3	
25	2.729	2.740	2.0	2.7	45.5	59.4	2.0	2.0	45.5	44.6	6.78	27.9	7.31	1	1	
26	2.822	2.740		2.7	59.4	59.4	2.0	2.0	44.6	44.6	7.47	27.9	7.36		1	
27	2.911	2.741		2.7	59.4	59.4	2.0	2.0	44.6	44.6	5.78	30.5	6.86		1	
28	2.756	2.765		2.7	59.4	59.4	2.0	2.0	44.6	44.6	5.89	27.9	7.13		1	
29	2.688	2.770	4.0	3.0	89.7	67.2	2.0	2.0	44.8	44.9	7.22	27.8	6.86		1	
30	2.720	2.780	10.0	5.3	226.8	120.7	2.0	2.0	45.4	45.2	8.02	29.0	7.22	17	4	
31	2.726	2.765		5.3	120.7	120.7	2.0	2.0	45.2	45.2	7.93	28.6	7.19		4	
TOTAL	88.02															
AVERAGE	2.839	2.817	3	3	69	57.3	2	1.5	38	35	7.38	28.4	7.25	26	5	
MAXIMUM	3.502	3.120	10.0	5	227	120.7	2.0	2.0	52	50	8.11	30.5	7.61	184	12	
MINIMUM	2.470	2.716	1.0	1	21	29.9	1.0	1.0	23	23	5.78	27.0	6.55	1	1	
Hgt 7 day avg			5.3		120.7		2.0		50.3							
AVG LIMIT			5.0													
WKLY LIMIT			7.5													

PLANT EFFLUENT																		
JULY	EFF FLOW	FLOW 7-DAY	EFF BOD	BOD 7-DAY	EFF BOD	BOD 7-DAY	EFF TSS	TSS 7-DAY	EFF TSS	TSS 7-DAY	WATER METER	WATER METER	EFF D.O.	EFF TEMP	EFF PH	FECAL #/100 ML	7-DAY GEO MEAN	
2019	MGD	AVG	mg/L	AVG	LBS/DAY	AVG	mg/L	AVG	LBS/DAY	AVG	READING	DAILY MGD	mg/L	OUTFALL	SU	ML	MEAN	
1	0.329		5.0		13.72		9		24.69		7872.00	0.00010	8.08	28.1	7.57			
2	0.353		3.0		8.83		5		14.72		7873.00	0.00020	6.66	28.3	7.29	31		
3	0.385		3.0		9.63		1		3.21		7875.00	0.00020	6.50	28.2	7.39			
4	0.341										7877.00	0.00030	8.07	27.7	6.93	1		
5	0.356										7880.00	0.00010	8.47	27.8	6.73			
6	0.366										7882.00	0.00010	8.38	27.3	6.79			
7	0.373	0.358		3.7		10.73		5.00		14.21	7885.00	0.00020	8.74	28.2	7.27		6	
8	0.340	0.359	1.0	2.3	2.84	7.10	3	3.00	8.51	8.81	7887.00	0.00020	7.91	27.4	7.41		6	
9	0.351	0.359	1.0	1.7	2.93	5.13	4	2.67	11.71	7.81	7889.00	0.00010	6.58	28.2	6.89	1	1	
10	0.353	0.354	12.0	4.7	35.33	13.70	2	3.00	5.89	8.70	7890.00	0.00020	6.61	28.0	7.10		1	
11	0.352	0.356		4.7		13.70		3.00		8.70	7892.00	0.00010	6.58	28.0	7.00	4	2	
12	0.364	0.357		4.7		13.70		3.00		8.70	7892.00	0.00020	8.54	28.0	6.93		2	
13	0.347	0.354		4.7		13.70		3.00		8.70	7894.00	0.00010	8.62	28.5	7.67		2	
14	0.331	0.348		4.7		13.70		3.00		8.70	7895.00	0.00010	8.69	28.5	7.78		2	
15	0.324	0.346	15.0	9.3	40.53	26.26	3	3.00	8.11	8.57	7886.00	0.00010	8.63	28.4	7.77		2	
16	0.319	0.341	10.0	12.3	26.60	34.16	3	2.67	7.98	7.33	7902.00	0.00030	8.36	28.8	7.64	18	8	
17	0.366	0.343	12.0	12.3	36.63	34.59	4	3.33	12.21	9.43	7905.00	0.00030	8.10	29.3	7.71		8	
18	0.415	0.352		12.3		34.59		3.33		9.43	7908.00	0.00040	8.61	26.5	7.53	10	13	
19	0.334	0.348		12.3		34.59		3.33		9.43	7912.00	0.00005	7.88	25.5	7.40		13	
20	0.326	0.345		12.3		34.59		3.33		9.43	7917.00	0.00000	8.21	26.3	7.16		13	
21	0.327	0.344		12.3		34.59		3.33		9.43	7920.00	0.00003	8.00	27.1	7.39		13	
22	0.324	0.344		11.0		31.62		3.50		10.10	7921.00	0.00000	8.17	27.7	7.88		13	
23	0.443	0.362	13.0	12.5	48.03	42.33	5	4.50	18.47	15.34	7923.00	0.00020	6.47	28.2	7.24	14	12	
24	0.358	0.361	6.0	9.5	17.91	32.97	4	4.50	11.94	15.21	7928.00	0.00030	6.59	27.3	7.22		12	
25	0.332	0.349	8.0	9.0	22.15	29.37	3	4.00	8.31	12.91	7931.00	0.00050	6.65	27.5	7.13	11	12	
26	0.397	0.358		9.0		29.37		4.00		12.91	7936.00	0.00050	8.43	28.0	7.49		12	
27	0.419	0.371		9.0		29.37		4.00		12.91	7941.00	0.00020	8.49	27.2	7.45		12	
28	0.374	0.378		9.0		29.37		4.00		12.91	7943.00	0.00050	8.46	27.9	7.43		12	
29	0.346	0.381	14.0	10.3	40.40	32.12	11	5.75	31.74	17.62	7948.00	0.00050	8.47	27.3	7.18		12	
30	0.372	0.371		9.3		26.82		6.00		17.33	7967.00	0.00090	7.70	28.3	7.01	197	47	
31	0.361	0.372	4.0	8.7	12.04	24.86	5	6.33	15.05	18.37	7958.00	0.00010	8.31	27.9	6.94	40	44	
TOTAL	11.078	8.914																
AVERAGE	0.357	0.357	7.6	8.5	22.68	25.32	4.4	3.783	13.04	11.32			7.87	27.8	7.30	33	11	
MAXIMUM	0.443	0.381	15.0	12.5	48.03	42.3	11.0	6.33	31.7	18.4			8.74	29.3	7.88	197	47	
MINIMUM	0.319	0.341	1.0	1.7	2.84	5.1	1.0	2.67	3.2	7.3			6.5	25.5	6.73	1	1	