



Brunswick / Glynn County Joint Water & Sewer Commission

April, 2019

WWTF Capacity Rating

	Weekly Limit		Monthly Limit		Current Average		% OF CAPACITY
ACADEMY CREEK WWTF	16.9	MGD	13.5	MGD	7.19	MGD	53.26% <i>*1 (I & I PROBLEM)</i>
DUNBAR CREEK WWTF	5	MGD	4	MGD	2.759	MGD	68.98% <i>*2 (I & I PROBLEM)</i>
SOUTH PORT WWTF	1.875	MGD	1.5	MGD	0.364	MGD	24.27%

*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

APRIL 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	7.12		11		653		17		1009		75		4454	
2	7.60		8		507		14		887		57		3613	
3	6.69		10		558		13		725		66		3682	
4	7.13		11		654		17		1011		70		4162	
5	6.72		6		336		10		560		57		3195	
6	6.96													
7	7.24	7.07		9		542		14		839		65		3821
8	8.03	7.20	8	9	536	518	14	14	938	824	62	62	4152	3761
9	8.63	7.34	8	9	576	532	13	13	936	834	63	64	4534	3945
10	8.01	7.53	7	8	468	514	11	13	735	836	57	62	3808	3970
11	8.48	7.72	7	7	495	482	14	12	990	832	74	63	5234	4184
12	7.61	7.85	7	7	444	504	13	13	825	885	55	62	3491	4244
13	7.56	7.94		7		504		13		885		62		4244
14	7.90	8.03		7		504		13		885		62		4244
15	7.51	7.96	5	7	313	459	15	13	940	885	62	62	3883	4190
16	7.33	7.77	9	7	550	454	17	14	1039	906	66	63	4035	4090
17	7.32	7.67	10	8	610	483	14	15	855	930	69	65	4212	4171
18	7.28	7.50	9	8	546	493	12	14	729	877	68	64	4129	3950
19	7.52	7.49	11	9	690	542	17	15	1066	926	77	68	4829	4218
20	7.28	7.45		9		542		15		926		68		4218
21	6.37	7.23		9		542		15		926		68		4218
22	6.81	7.13	8	9	454	570	17	15	966	931	64	69	3635	4168
23	6.97	7.08	10	10	581	576	15	15	872	897	58	67	3372	4035
24	6.46	6.96	10	10	539	562	12	15	647	856	58	65	3125	3818
25	6.62	6.86	9	10	497	552	15	15	828	876	55	62	3037	3599
26	6.62	6.73	11	10	607	536	15	15	828	828	88	65	4859	3605
27	6.24	6.58		10		536		15		828		65		3605
28	6.74	6.64		10		536		15		828		65		3605
29	6.31	6.57	13	11	684	582	18	15	947	824	76	67	4000	3678
30	6.63	6.52	12	11	664	598	16	15	885	827	61	68	3373	3678
TOTAL	215.69													
AVERAGE	7.19	7.28	9	9	545	528	15	14	869	870	65	65	3919	3969
MAXIMUM	8.63	8.03	13	11	690	598	18	15	1066	931	88	69	5234	4244
MINIMUM	6.24	6.52	5	7	313	454	10	12	560	824	55	62	3037	3599

FINAL EFFLUENT COMPOSITE SAMPLES

APRIL 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	D.O. mg/L	TEMP OUTFALL	pH SU	Enterococci COLIFORM	7-DAY GEO
														#/100 ml	MEAN
1	2.862		2.0		47.7		2		47.7		7.51	21.3	7.39		
2	2.860		1.0		23.9		2		47.7		7.81	20.7	7.63	2	
3	2.799										7.91	20.5	7.60		
4	2.930		1.0		24.4		1		24.4		6.81	20.7	7.58	2	
5	2.896										7.65	20.9	7.47		
6	2.930										6.96	22.6	7.60		
7	2.818	2.871		1.3		32.0		1.7		40.0	7.58	23.0	7.68		2
8	2.784	2.860	3.0	1.7	69.7	39.3	2.0	1.7	46.4	39.5	8.37	23.2	7.45		2
9	2.847	2.858	2.0	2.0	47.5	47.2	1.00	1.3	23.7	31.5	7.22	23.3	7.61	2	2
10	2.799	2.858		2.0		47.2		1.3		31.5	7.83	21.1	7.43		2
11	2.692	2.824	1.0	2.0	22.5	46.5	2.00	1.7	44.9	38.4	8.08	23.3	7.52	4	3
12	2.956	2.832		2.0		46.5		1.7		38.4	8.36	23.7	7.37		3
13	3.812	2.958		2.0		46.5		1.7		38.4	8.23	23.6	7.26		3
14	2.981	2.982		2.0		46.5		1.7		38.4	8.31	23.1	7.34		3
15	2.592	2.954	2.0	1.7	43.2	37.7	3.0	2.0	64.9	44.5	7.06	23.0	7.84		3
16	2.614	2.921	1.0	1.3	21.8	29.2	2.0	2.3	43.6	51.1	8.38	22.1	7.65	12	7
17	2.719	2.909		1.3		29.2		2.3		51.1	7.69	22.3	7.51		7
18	2.734	2.915	1.0	1.3	22.8	29.3	2.0	2.3	45.6	51.4	7.47	23.3	7.48	16	14
19	2.895	2.907		1.3		29.3		2.3		51.4	7.98	23.9	7.56		14
20	3.195	2.819		1.3		29.3		2.3		51.4	7.69	23.6	7.48		14
21	2.317	2.724		1.3		29.3		2.3		51.4	7.53	23.5	7.43		14
22	2.533	2.715	2.0	1.3	42.3	29.0	3.0	2.3	63.4	50.9	7.64	22.4	7.44		14
23	2.559	2.707	2.0	1.7	42.7	35.9	2.0	2.3	42.7	50.6	7.75	22.8	7.53	5	9
24	2.594	2.690		1.7		35.9		2.3		50.6	7.03	23.0	7.41		9
25	2.525	2.660	2.0	2.0	42.1	42.4	2.0	2.3	42.1	49.4	8.70	23.4	7.65	48	15
26	2.857	2.654		2.0		42.4		2.3		49.4	7.20	23.8	7.41		15
27	2.581	2.567		2.0		42.4		2.3		49.4	6.84	23.8	7.39		15
28	2.258	2.558		2.0		42.4		2.3		49.4	6.79	23.9	7.42		15
29	2.372	2.535	2.0	2.0	39.6	41.5	6.0	3.3	118.7	67.8	6.67	23.8	7.97		15
30	2.448	2.519	1.0	1.7	20.4	34.0	2	3.3	40.8	67.2	7.22	24.3	7.55	1	7
TOTAL	82.76														
AVERAGE	2.759	2.783	2	2	36	37.9	2	2.2	50	47	7.61	22.8	7.52	10	5
MAXIMUM	3.812	2.982	3.0	2.0	70	47.2	6.0	3.3	119	68	8.7	24.3	7.97	48	15
MINIMUM	2.258	2.519	1.0	1.3	20	29.0	1.0	1.3	24	32	6.7	20.5	7.26	1	2
Hgt 7 day avg			2.0		47.2		3.3		67.8						
AVG LIMIT			5.0												
WKLY LIMIT			7.5												

PLANT EFFLUENT

APRIL 2019	EFF FLOW		EFF	BOD	EFF	BOD	EFF	TSS	EFF	TSS	WATER	WATER METER	EFF	EFF	EFF	FECAL	7-DAY
	FLOW	7-DAY	BOD	7-DAY	BOD	7-DAY	TSS	7-DAY	TSS	7-DAY	METER	DAILY	D.O.	TEMP	PH	#/100	GEO
	MGD	AVG	mg/L	AVG	LBS/DAY	AVG	mg/L	AVG	LBS/DAY	AVG	READING	USAGE	mg/L	OUTFALL	SU	ML	MEAN
1	0.357		8		23.82		4		11.91		7632.00	0.000030	9.29	20.8	8.02		
2	0.367		4		12.24		3		9.18		7635.00	0.000020	8.00	19.7	8.00	4	
3	0.356		3		8.91		1		2.97		7637.00	0.000010	8.77	19.7	7.63		
4	0.354										7638.00	0.000020	9.06	19.7	7.42	6	
5	0.321										7640.00	0.000010	9.31	21.1	7.96		
6	0.381										7642.00	0.000010	9.27	21.6	7.96		
7	0.366	0.357		5.0		14.99		2.67		8.02	7643.00	0.000030	9.23	21.7	7.93		5
8	0.390	0.362	6	4.3	19.52	13.56	3	2.33	9.76	7.30	7646.00	0.000020	8.38	22.4	7.88		5
9	0.380	0.364	3	4.0	9.51	12.64	2	2.00	6.34	6.36	7648.00	0.000020	6.88	22.5	7.31	13	9
10	0.413	0.372	7	5.3	24.11	17.71	3	2.67	10.33	8.81	7650.00	0.000030	7.08	22.6	7.23		9
11	0.402	0.379		5.3		17.71		2.67		8.81	7653.00	0.000020	7.52	22.9	7.21	1	4
12	0.360	0.385		5.3		17.71		2.67		8.81	7655.00	0.000020	8.85	23.8	7.81		4
13	0.368	0.383		5.3		17.71		2.67		8.81	7657.00	0.000020	8.34	23.9	7.71		4
14	0.376	0.384		5.3		17.71		2.67		8.81	7659.00	0.000020	8.16	22.8	7.89		4
15	0.344	0.378	4	4.7	11.48	15.03	1	2.00	2.87	6.51	7660.00	0.000030	8.86	23.3	8.05		4
16	0.355	0.374	3	4.7	8.88	14.82	1	1.67	2.96	5.39	7663.00	0.000030	7.14	21.7	7.59	4	2
17	0.372	0.368	10.0	5.7	31.02	17.13	2	1.33	6.20	4.01	7666.00	0.00020	7.02	22.2	7.53		2
18	0.360	0.362		5.7		17.13		1.33		4.01	7668.00	0.000020	8.76	22.4	7.51	3	3
19	0.423	0.371		5.7		17.13		1.33		4.01	7670.00	0.000030	8.67	23.6	8.10		3
20	0.382	0.373		5.7		17.13		1.33		4.01	7673.00	0.000030	8.62	23.5	7.92		3
21	0.303	0.363		5.7		17.13		1.33		4.01	7676.00	0.000030	8.23	23.7	7.98		3
22	0.399	0.371	4	5.7	13.31	17.74	2	1.67	6.66	5.27	7679.00	0.000140	9.10	21.6	7.95		3
23	0.363	0.372	3	5.7	9.08	17.81	2	2.00	6.05	6.31	7693.00	0.000030	7.03	21.5	7.39	7	5
24	0.352	0.369	13	6.7	38.16	20.19	1	1.67	2.94	5.22	7696.00	0.000030	7.11	22.3	7.42		4
25	0.360	0.369		6.7		20.19		1.67		5.22	7699.00	0.00030	8.69	22.5	7.33	3	5
26	0.342	0.357		6.7		20.19		1.67		5.22	7702.00	0.000030	8.65	22.3	7.93		5
27	0.318	0.348		6.7		20.19		1.67		5.22	7705.00	0.000020	8.51	23.4	7.81		5
28	0.335	0.353		6.7		20.19		1.67		5.22	7707.00	0.000020	8.34	23.4	7.73		5
29	0.334	0.343	7	7.7	19.50	22.25	2	1.67	5.57	4.85	7709.00	0.000030	8.78	23.3	7.79		5
30	0.376	0.345	2	7.3	6.27	21.31	2	1.67	6.27	4.93	7712.00	0.000030	7.17	23.5	7.31	5	4
TOTAL	10.909	8.802															
AVERAGE	0.364	0.367	5.5	5.7	16.84	17.72	2.1	1.917	6.43	6.05			8.3	22.3	7.7	5	4
MAXIMUM	0.423	0.385	13.0	7.7	38.16	22.2	4.0	2.67	11.9	8.8			9.3	23.9	8.1	13	9
MINIMUM	0.303	0.343	2.0	4.0	6.27	12.6	1.0	1.33	2.9	4.0			6.9	19.7	7.2	1	2