

NPDES PERMIT NO.: NC0047384

PERMIT VERSION: 5.0

PERMIT STATUS: Expired

FACILITY NAME: T.Z. Osborne WWTP

CLASS: WW-4

COUNTY: Guilford

OWNER NAME: City of Greensboro

ORC: Bradlev Todd Flvnt

ORC CERT NUMBER: 27171

GRADE: WW-4

ORC HAS CHANGED: No

eDMR PERIOD: 12-2023 (December 2023)

VERSION: 1.0

STATUS: Submitted

SAMPLING LOCATION: EFFLUENT DISCHARGE NO.: 001 NO DISCHARGE*: NO

Date	Composite Sample Time	Total Composite Time	Operator Arrival Time	Operator Time On Site	ORC On Site?*	No Reporting Reason***	50050	00010	00400	50060	CO610	CO530	31616	00300	CO600	
							Continuous	5 X week	5 X week	5 X week	5 X week	2 X week	2 X week	5 X week	Weekly	
							Recorder	Grab	Grab	Grab	Composite	Composite	Grab	Grab	Composite	
							FLOW	TEMP-C	pH	CHLORINE	NH3-N - Conc	TSS - Conc	FCOLIBR	DO	TOTAL N -	
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N		mgd	deg c	su	ug/l	mg/l	mg/l	#/100ml	mg/l	mg/l	
1		24	7	24	B		31.07	20.9	7.7	< 14	< 0.1	6.01	49.6	9.04		
2		24	7	24	B		30.92									
3		24	7	24	Y		32.4									
4		24	7	24	Y		31.65	21.5	7.5	< 14	< 0.1	5.8	7.1	8.65		
5		24	7	24	Y		31.54	21.6	7.5	< 14	< 0.1	6.14	1	8.48		
6		24	7	24	B		31.85	21.7	7.5	< 14	< 0.1			8.73	3.6	
7		24	7	24	B		29.58	21.2	7.5	< 14	0.185	7.74	4.1	8.95		
8		24	7	24	B		31.3	21	7.5	< 14	0.138	7	20.9	8.68		
9		24	7	24	B		31.13									
10		24	7	24	B		43.2									
11		24	7	24	B		49.95	23	7.5	21	< 0.1	5.5	11.5	8.55		
12		24	7	24	Y		35.33	19.4	7.5	< 14	< 0.1	4.87	3.1	8.81		
13		24	7	24	Y		32.4	19.4	7.5	< 14	< 0.1	5.53	26.2	9.12	3.2	
14		24	7	24	Y		31.64	19.8	7.6	< 14	< 0.1	5.54	67	9.12		
15		24	7	24	Y		30.38	20	7.5	< 14	< 0.1	6.41	> 2419.6	9.21		
16		24	7	24	B		32.82									
17		24	7	24	B		46.79									
18		24	7	24	Y		45.7	18.6	7.4	< 14	0.89	5.39	2.86	9.05		
19		24	7	24	Y		38.82	17.3	7.4	< 14	0.111	4.8	1	9.17		
20		24	7	24	Y		33.65	17.7	7.5	< 14	< 0.1	5.27	198.9	8.54	2.42	
21		24	7	24	Y		32.18	18.3	7.5	17	< 0.1	4.67	30.1	9.36		
22		24	7	24	Y		31.47	18.5	7.5	< 14	< 0.1	6	48.8	9.23		
23		24	7	24	B		30.08									
24		24	7	24	B		30.23									
25		24	7	24	B		29.32	H	H	H	H	H	H	H	H	
26		24	7	24	B		38.23	H	H	H	H	H	H	H	H	
27		24	7	24	B		53.04	H	H	H	H	H	H	H	H	
28		24	7	24	Y		40.36	18.4	7.3	< 14	< 0.1	4.77	5.94	9.07	5.28	
29		24	7	24	Y		37.29	18.4	7.4	< 14	< 0.1	5	52.1	9.13		
30		24	7	24	B		33.31									
31		24	7	24	B		32.2									
Monthly Average Limit:							56				1.64	30	200			
Monthly Average:							35.155806	19.816667		2.111111	0.073556	5.672941	17.360271	8.938333	3.625	
Daily Maximum:							53.04	23	7.7	21	0.89	7.74	2419.6	9.36	5.28	
Daily Minimum:							29.32	17.3	7.3	0	0	4.67	1	8.48	2.42	

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SAMPLING LOCATION: EFFLUENT DISCHARGE NO.: 001 NO DISCHARGE*: NO (Continue)

Date	Composite Sample Time	Total Composite Time	Operator Arrival Time	Operator Time On Site	ORC On Site:**	No Reporting Reason***	QM600	QY600	CO665	QM665	QY665	80082	00630	00625	01147	NC01	82388		
							Monthly	Annually	Weekly	Monthly	Annually	5 X week	Weekly	Weekly	Monthly	Annually			
							Calculated	Calculated	Composite	Calculated	Calculated	Composite	Composite	Composite	Composite	Grab	Grab		
							TOTAL N -	TOTAL N -	TOTAL P -	Total P - Qty	Total P - Qty	CBOD 20C	NO2&NO3	TOT KJEL	Se-TOTAL	ANN POL	14DIOXAN		
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N		lb/mon	lbs/yr	mg/l	lb/mon	lbs/yr	mg/l	mg/l	mg/l	ug/l	yes=1 no=0	ug/l		
1		24	7	24	B							< 2							
2		24	7	24	B														
3		24	7	24	Y														
4		24	7	24	Y							< 2							
5		24	7	24	Y			0.573				< 2					3.63		
6		24	7	24	B							< 2	0.6	3	< 5				
7		24	7	24	B							< 2							
8		24	7	24	B							< 2							
9		24	7	24	B														
10		24	7	24	B														
11		24	7	24	B							< 2							
12		24	7	24	Y			0.332				< 2					2.89		
13		24	7	24	Y							< 2	0.88	2.32					
14		24	7	24	Y							< 2							
15		24	7	24	Y							< 2							
16		24	7	24	B														
17		24	7	24	B														
18		24	7	24	Y							3.36							
19		24	7	24	Y			0.337				< 2					7.82		
20		24	7	24	Y							3.43	0.19	2.23					
21		24	7	24	Y							< 2							
22		24	7	24	Y							< 2							
23		24	7	24	B														
24		24	7	24	B														
25		24	7	24	B			H				H	H	H	H				
26		24	7	24	B			H				H	H	H	H				
27		24	7	24	B			H				H	H	H	H				
28		24	7	24	Y			0.308				< 2	1.67	3.61			2.18		
29		24	7	24	Y							< 2							
30		24	7	24	B														
31		24	7	24	B		32992.8231	379854		3527	45126								
Monthly Average Limit:												8			5.1				
Monthly Average:							32992.8231	379854	0.3875	3527	45126	0.377222	0.835	2.79	0			4.13	
Daily Maximum:							32992.8231	379854	0.573	3527	45126	3.43	1.67	3.61	0			7.82	
Daily Minimum:							32992.8231	379854	0.308	3527	45126	0	0.19	2.23	0			2.18	

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							Composite	Composite	Composite	Composite	Composite	Composite	Composite	Grab	Composite	Composite	Grab	
							ANTIMONY	As-TOTAL	BERYLIUM	CADMIUM	Cr-TOTAL	COBALT	COPPER	CN-TOT	TOT HARD	LEAD	MERCURY -	
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l	ug/l		
1		24	7	24	B													
2		24	7	24	B													
3		24	7	24	Y													
4		24	7	24	Y													
5		24	7	24	Y													
6		24	7	24	B			3.06	< 0.5	< 5		< 2				< 2		
7		24	7	24	B													
8		24	7	24	B													
9		24	7	24	B													
10		24	7	24	B													
11		24	7	24	B													
12		24	7	24	Y													
13		24	7	24	Y													
14		24	7	24	Y													
15		24	7	24	Y													
16		24	7	24	B													
17		24	7	24	B													
18		24	7	24	Y													
19		24	7	24	Y													
20		24	7	24	Y													
21		24	7	24	Y												0.00178	
22		24	7	24	Y													
23		24	7	24	B													
24		24	7	24	B													
25		24	7	24	B		H	H	H	H	H	H	H	H		H	H	
26		24	7	24	B		H	H	H	H	H	H	H	H		H	H	
27		24	7	24	B		H	H	H	H	H	H	H	H		H	H	
28		24	7	24	Y													
29		24	7	24	Y													
30		24	7	24	B													
31		24	7	24	B													
Monthly Average Limit:																		
Monthly Average:								3.06		0	0		0				0	0.00178
Daily Maximum:								3.06		0	0		0				0	0.00178
Daily Minimum:								3.06		0	0		0				0	0.00178

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Date	Composite Sample Time	Total Composite Time	Operator Arrival Time	Operator Time On Site	ORC On Site?*	No Reporting Reason***	01067	TGP3B	01077	01059	01102	01152	01087	01092	
							Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	
							NICKEL	CERI7DPF	SILVER	THALLIUM	TIN	TITANIUM	VANADIUM	ZINC	
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N										
1		24	7	24	B										
2		24	7	24	B										
3		24	7	24	Y										
4		24	7	24	Y										
5		24	7	24	Y										
6		24	7	24	B		12.1		< 1					46.2	
7		24	7	24	B										
8		24	7	24	B										
9		24	7	24	B										
10		24	7	24	B										
11		24	7	24	B										
12		24	7	24	Y										
13		24	7	24	Y										
14		24	7	24	Y										
15		24	7	24	Y										
16		24	7	24	B										
17		24	7	24	B										
18		24	7	24	Y										
19		24	7	24	Y										
20		24	7	24	Y										
21		24	7	24	Y										
22		24	7	24	Y										
23		24	7	24	B										
24		24	7	24	B										
25		24	7	24	B		H		H	H	H	H	H	H	
26		24	7	24	B		H		H	H	H	H	H	H	
27		24	7	24	B		H		H	H	H	H	H	H	
28		24	7	24	Y										
29		24	7	24	Y										
30		24	7	24	B										
31		24	7	24	B										
Monthly Average Limit:															
Monthly Average:							12.1		0						46.2
Daily Maximum:							12.1		0						46.2
Daily Minimum:							12.1		0						46.2

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ORC: Bradley Todd Flynt

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GRADE: WW-4

ORC HAS CHANGED: No

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VERSION: 1.0

STATUS: Submitted

SAMPLING LOCATION: INFLUENT DISCHARGE NO.: 001

Date	Composite Sample Time	Total Composite Time	No Reporting Reason****	CO530	80082	CO610	CO665	80091	81011
				2 X week	5 X week				
				Composite	Composite	Composite	Composite	Composite	Composite
				TSS - Conc	CBOD 20C	NH3-N - Conc	TOTAL P - Conc	CBOD5-%R	TSS-%R
	2400	Hrs		mg/l	mg/l	mg/l	mg/l	percent	percent
1		24		382	264	27.7			
2		24							
3		24							
4		24		308	427	25.3			
5		24		310	339	23.5	11.5		
6		24			299	25.5			
7		24		347	408	24.2			
8		24		319	405	26.7			
9		24							
10		24							
11		24		375	243	15.7			
12		24		315	231	14.4	6.61		
13		24		291	305	20.5			
14		24		308	393	24.8			
15		24		349	441	29.9			
16		24							
17		24							
18		24		218	272	11.5			
19		24		222	316	14	7.01		
20		24		363	441	19.6			
21		24		362	380	21.1			
22		24		265	314	18.8			
23		24							
24		24							
25		24		H	H	H	H		
26		24		H	H	H	H		
27		24		H	H	H	H		
28		24		316	223	13.4	6.85		
29		24		247	343	17			
30		24							
31		24						99.887625	98.179708
Monthly Average Limit:									
Monthly Average:				311.588235	335.777778	20.755556	7.9925	99.887625	98.179708
Daily Maximum:				382	441	29.9	11.5	99.887625	98.179708
Daily Minimum:				218	223	11.5	6.61	99.887625	98.179708

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SUBMISSION DATE: 01/29/2024

COMPLIANCE STATUS: Compliant

CONTACT PHONE #: 3364337262

Electronically Certified by Bradley Todd Flynt on 2024-01-29 13:01:14.605

1-30-24

ORC / Certifier Signature: Bradley Todd Flynt

Phone #: 3364337262

Date

I certify that this report is accurate and complete to the best of my knowledge.

The permittee shall report to the Director or the appropriate Regional Office any noncompliance that potentially threatens public health or the environment. Any information shall be provided orally within 24 hours from the time the permittee became aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall be made as required by part II.E.6 of the NPDES permit.

Electronically Signed by Elijah Lamont Williams on 2024-01-29 13:04:15.332

1/31/2024

Permittee/Submitter Signature: ***Elijah Lamont Williams

Phone #: 336-373-4632

Date

Permittee Address: 2350 Huffin Mill Rd Mc Leansville NC 273019304

Permit Expiration Date: 12/31/2023

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

CERTIFIED LABORATORIES

LAB NAME: TZO Laboratory, Meritech Labs Inc, Pace Analytical Services

CERTIFIED LAB #: #65, #165, #12

PERSON(s) COLLECTING SAMPLES: Automatic Sampler

PARAMETER CODES

Parameter Code assistance may be obtained by visiting <https://deq.nc.gov/about/divisions/water-resources/edmr/user-documentation>.

FOOTNOTES

Use only units of measurement designated in the reporting facility's NPDES permit for reporting data.

* No Flow/Discharge From Site: YES indicates that No Flow/Discharge occurred and, as a result, no data is reported for any parameter on the DMR for the entire monitoring period.

** ORC on Site?: ORC must visit facility and document visitation of facility as required per 15A NCAC 8G .0204.

*** Signature of Permittee: If signed by other than the permittee, then delegation of the signatory authority must be on file with the state per 15A NCAC 2B .0506(b)(2)(D).

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Report Comments:

Data Qualifications - CBOD - G/G out of range on 12/1,12/4,12/11-13. Blank >0.20 on 12/5,12/8,12/18,12/28. G/G and Blank out of range on 12/6-7, 12/14. CY 2023 Total

Nitrogen and Total Phosphorus Nutrient Report has been uploaded along with the eDMR.

CITY OF GREENSBORO NUTRIENT DISCHARGES - (required by NPDES Permit NC00047384 - Section A.(9.) - Submit with December eDMR)

T. Z. OSBORNE NC00047384: TN Limits and TP Limits from Jordan Lake Rules

	2023	Total Q	Avg TN	^A TN Load	NPDES TN	TN lbs	% Calendar	Avg TP	^A TP Load	NPDES TP	TP lbs	% Calendar
		MG/month	mg/l	lbs/mo EOP	LIMITS (lbs/year)	Tracking	Year	mg/l	lbs/mo EOP	LIMITS (lbs/year)	Tracking	Year
January 2023		1109.9	4.68	43,321	↓	74,272	8.3	0.593	5489	↓	9,337	8.3
February 2023		1013.1	3.83	32,361	↓	148,544	16.6	0.158	1335	↓	18,674	16.6
March 2023		1072.1	3.27	29,238	↓	222,816	25.0	0.165	1475	↓	28,011	25.0
April 2023		1134.1	3.35	31,686	↓	297,088	33.3	0.214	2024	↓	39,348	33.3
May 2023		1031.4	3.12	26,838	↓	371,360	41.6	0.502	4318	↓	46,685	41.6
June 2023		987.1	2.96	24,368	↓	445,632	50.0	0.414	3408	↓	56,022	50.0
July 2023		975.4	4.43	36,037	↓	519,904	58.3	0.831	6760	↓	65,359	58.3
August 2023		966.1	4.58	36,902	↓	594,176	66.6	0.868	6994	↓	74,696	66.6
September 2023		961.2	3.14	25,171	↓	668,448	75.0	0.504	4040	↓	84,033	75.0
October 2023		959.0	4.21	33,672	↓	742,720	83.3	0.326	2607	↓	93,370	83.3
November 2023		936.8	3.49	27,267	↓	816,992	91.6	0.403	3149	↓	102,707	91.6
December 2023		1089.8	3.63	32,993	↓	891,264	100.0	0.388	3527	↓	112,044	100.0
TZO END OF PIPE DISCHARGE		12236.0	3.72	379,854	891,272			0.447	45,126	112,044		
NPDES ANNUAL LIMITS (lbs/year)					42.62					40.28		
% of EOP Discharge Limits												
TZO Transport Factor (to Lake)			↓	0.45	Pounds/Year Delivered to Jordan Lake			↓	0.44			
TZO Delivered Load (to Lake)				170934	401,072				19855	49,299		
% of Delivered To Lake Limit					42.62					40.28		
EOP = End of Pipe												
TN = Total Nitrogen												
TP = Total Phosphorus												
Q = Flow												
				EOP 74,272 lbs/mo				EOP 9337 lbs/mo				
				(based on design Q				(based on design Q				
				and 5.228 mg/l EOP)				and 0.657 mg/l EOP)				