

NPDES PERMIT NO.: NC0047384

PERMIT VERSION: 4.0

PERMIT STATUS: Expired

FACILITY NAME: T.Z. Osborne WWTP

CLASS: WW-4.

COUNTY: Guilford

OWNER NAME: City of Greensboro

ORC: Bradley Todd Flynt

ORC CERT NUMBER: 27171

GRADE: WW-4.

ORC HAS CHANGED: No

eDMR PERIOD: 07-2024 (July 2024)

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	FCOLI BR	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	Y		28.11	28.7	7.6	< 14	0.309	5.2	7.04	7.22		
2		24	7	24	Y		29.76	27.2	7.6	< 14	0.162	5.54	9.6	7.46		
3		24	7	24	Y		28.33	27.5	7.8	< 14	0.12	4.7	32.3	7.45	6.37	
4		24	7	24	B		30.31	H	H	H	H	H	H	H	H	
5		24	7	24	Y		28.57	29	7.7	< 14	0.102	4.05	36.9	7.58		
6		24	7	24	B		29.64									
7		24	7	24	B		34.54									
8		24	7	24	Y		33.29	28.6	7.5	< 14	< 0.1	5.95	271	7.43		
9		24	7	24	Y		31.63	28.6	7.6	< 14	< 0.1	10.1	285.1	7.4	3.74	
10		24	7	24	Y		31.4	29.1	7.6	< 14	< 0.1	3.69	57.3	7.2		
11		24	7	24	Y		30.54	28.5	7.6	< 14	0.135	5.13	29.5	7.45		
12		24	7	24	Y		32.28	28.7	7.7	< 14	< 0.1	4.75	36.4	7.57		
13		24	7	24	B		31.09									
14		24	7	24	B		30.39									
15		24	7	24	Y		31.44	29.4	7.6	< 14	< 0.1	5.32	27.8	6.83		
16		24	7	24	Y		30.75	29.2	7.6	< 14	< 0.1	5.19	3.1	7.09		
17		24	7	24	Y		31.13	29.4	7.7	< 14	< 0.1	5.47	1	7.19		
18		24	7	24	Y		32.04	29.4	7.7	< 14	< 0.1	5.63	3.1	7.34		
19		24	7	24	Y		32.83	29.7	7.6	< 14	< 0.1	5.54	31.1	7.1	3.15	
20		24	7	24	B		33.25									
21		24	7	24	B		35.77									
22		24	7	24	Y		35.77	29	7.7	25	< 0.1	4.47	1.4	7.14		
23		24	7	24	Y		32.64	29	7.7	17	< 0.1	3.33	2	7.48		
24		24	7	24	Y		33.83	28.8	7.6	< 14	< 0.1	3.59	4.1	7.01	1.53	
25		24	7	24	B		53.22	28.5	7.6	< 14	< 0.1	4.18	6.2	6.99		
26		24	7	24	B		39.86	28	7.5	< 14	< 0.1	2.9	1	7.19		
27		24	7	24	B		33.84									
28		24	7	24	B		32.65									
29		24	7	24	Y		41.11	28.3	7.6	< 14	< 0.1	2.95	32.4	6.89		
30		24	7	24	Y		39.06	28.1	7.5	< 14	< 0.1	3.2	2	7.22		
31		24	7	24	Y		34.57	28.1	7.7	< 14	< 0.1	3.35	7.4	7.63	4.11	
Monthly Average Limit:							56				2	30	200			
Monthly Average:							33.343226	28.672727		1.909091	0.037636	4.737727	11.145029	7.266364	3.78	
Daily Maximum:							53.22	29.7	7.8	25	0.309	10.1	285.1	7.63	6.37	
Daily Minimum:							28.11	27.2	7.5	0	0	2.9	1	6.83	1.53	

*** No Reporting Reason: ENFRUSE = No Flow-Reuse/Recycle; ENVWTHR = No Visitation - Adverse Weather; NOFLOW = No Flow; HOLIDAY = No Visitation - Holiday

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eDMR PERIOD: 07-2024 (July 2024)

VERSION: 1.0

STATUS: Submitted

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	80882	01042	00630	00625	TGP3B	01147	
							Monthly	Annually	Weekly	Monthly	Annually	5 X week	Quarterly	Weekly	Weekly	Quarterly	Monthly	
							Calculated	Calculated	Composite	Calculated	Calculated	Composite	Composite	Composite	Composite	Composite	Composite	
							TOTAL N -	TOTAL N -	TOTAL P -	Total P - Qty	Total P - Qty	CBOD 20C	COPPER	NO2&NO3	TOT IJEL	CER/D/DPF	Se-TOTAL	
	2400 clock	Hrs	2400 clock	Hrs	Y/B/N		lb/mon	lbs/yr	mg/l	lb/mon	lbs/yr	mg/l	ug/l	mg/l	mg/l	pass/fail	ug/l	
1		24	7	24	Y							2.1						
2		24	7	24	Y				0.359			<2						
3		24	7	24	Y							<2		1.36	5.01			
4		24	7	24	B				H			H	H	H	H		H	
5		24	7	24	Y							<2						
6		24	7	24	B													
7		24	7	24	B													
8		24	7	24	Y							<2						
9		24	7	24	Y							<2	2.85	1.03	2.71	0	<5	
10		24	7	24	Y				0.521			<2						
11		24	7	24	Y							<2						
12		24	7	24	Y							<2						
13		24	7	24	B													
14		24	7	24	B													
15		24	7	24	Y							<2						
16		24	7	24	Y				0.235			<2						
17		24	7	24	Y							<2						
18		24	7	24	Y							<2						
19		24	7	24	Y							4.5		0.14	3.01			
20		24	7	24	B													
21		24	7	24	B													
22		24	7	24	Y							<2						
23		24	7	24	Y				0.248			<2						
24		24	7	24	Y							<2		0.1	1.43			
25		24	7	24	B							<2						
26		24	7	24	B							<2						
27		24	7	24	B													
28		24	7	24	B													
29		24	7	24	Y							<2						
30		24	7	24	Y				0.208			<2						
31		24	7	24	Y		32584.4467			2707		<2		0.59	3.52			
Monthly Average Limit:												4						5.1
Monthly Average:							32584.4467		0.3142	2707		0.3	2.85	0.644	3.136	0	0	
Daily Maximum:							32584.4467		0.521	2707		4.5	2.85	1.36	5.01	0	0	
Daily Minimum:							32584.4467		0.208	2707		0	2.85	0.1	1.43	0	0	

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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****	01092	82388	01097	01002	01012	01027	01034	01037	00720	00900	01051					
							Quarterly	Grab	Composite	Composite	Composite	Composite	Composite	Composite	Grab	Composite	Composite					
							ZINC	14DIOXAN	ANTIMONY	As-TOTAL	BERYLIUM	CADMIUM	Cs-TOTAL	COBALT	CN-TOT	TOT HARD	LEAD					
							ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l					
1	2400 clock	Hrs	2400 clock	Hrs	Y/B/N																	
2		24	7	24	Y																	
3		24	7	24	Y																	
4		24	7	24	B		H		H	H	H	H	H	H	H		H					
5		24	7	24	Y																	
6		24	7	24	B																	
7		24	7	24	B																	
8		24	7	24	Y																	
9		24	7	24	Y		29.1	3.03	2	2.31	< 0.5	< 0.5	< 5	< 2	< 20	76	< 2					
10		24	7	24	Y																	
11		24	7	24	Y																	
12		24	7	24	Y																	
13		24	7	24	B																	
14		24	7	24	B																	
15		24	7	24	Y																	
16		24	7	24	Y			4.09														
17		24	7	24	Y																	
18		24	7	24	Y																	
19		24	7	24	Y																	
20		24	7	24	B																	
21		24	7	24	B																	
22		24	7	24	Y																	
23		24	7	24	Y			2.56														
24		24	7	24	Y																	
25		24	7	24	B																	
26		24	7	24	B																	
27		24	7	24	B																	
28		24	7	24	B																	
29		24	7	24	Y																	
30		24	7	24	Y			4.3														
31		24	7	24	Y																	
Monthly Average Limit:																						
Monthly Average:							29.1	3.234	2	2.31	0	0	0	0	0	0	76	0				
Daily Maximum:							29.1	4.3	2	2.31	0	0	0	0	0	76	0					
Daily Minimum:							29.1	2.19	2	2.31	0	0	0	0	0	76	0					

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FACILITY NAME: T.Z. Osborne WWTP

CLASS: WW-4

COUNTY: Guilford

OWNER NAME: City of Greensboro

ORC: Bradley Todd Flynt

ORC CERT NUMBER: 27171

GRADE: WW-4

ORC HAS CHANGED: No

eDMR PERIOD: 07-2024 (July 2024)

VERSION: 1.0

STATUS: Submitted

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

Date	Composite Sample Time 2400 clock	Total Composite Time Hrs	Operator Arrival Time 2400 clock	Operator Time On Site Hrs	ORC On Site?*	No Reporting Reason***	COMER	01067	01077	01059	01102	01152	01087
							Grab	Composite	Composite	Composite	Composite	Composite	Composite
							MERCURY - Conc	NICKEL	SILVER	THALLIUM	TIN	TITANIUM	VANADIUM
							ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
1	24	7	24	Y									
2	24	7	24	Y			0.002						
3	24	7	24	Y									
4	24	7	24	B			H	H	H	H	H	H	H
5	24	7	24	Y									
6	24	7	24	B									
7	24	7	24	B									
8	24	7	24	Y									
9	24	7	24	Y				7.81	< 1		< 25	23	7
10	24	7	24	Y									
11	24	7	24	Y									
12	24	7	24	Y									
13	24	7	24	B									
14	24	7	24	B									
15	24	7	24	Y									
16	24	7	24	Y									
17	24	7	24	Y									
18	24	7	24	Y									
19	24	7	24	Y									
20	24	7	24	B									
21	24	7	24	B									
22	24	7	24	Y									
23	24	7	24	Y									
24	24	7	24	Y									
25	24	7	24	B									
26	24	7	24	B									
27	24	7	24	B									
28	24	7	24	B									
29	24	7	24	Y									
30	24	7	24	Y									
31	24	7	24	Y									
Monthly Average Limit:													
Monthly Average:							0.002	7.81	0		0	23	7
Daily Maximum:							0.002	7.81	0		0	23	7
Daily Minimum:							0.002	7.81	0		0	23	7

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NPDES PERMIT NO.: NC0047384

PERMIT VERSION: 4.0

PERMIT STATUS: Expired

FACILITY NAME: T.Z. Osborne WWTP

CLASS: WW-4

COUNTY: Guilford

OWNER NAME: City of Greensboro

ORC: Bradley Todd Flynt

ORC CERT NUMBER: 27171

GRADE: WW-4

ORC HAS CHANGED: No

eDMR PERIOD: 07-2024 (July 2024)

VERSION: 1.0

STATUS: Submitted

SAMPLING LOCATION: INFLUENT DISCHARGE NO.: 001

Date	Composite Sample Time	Total Composite Time	No Reporting Reason****	CO530	80082	CO610	CO565	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		292	200	19.9			
2		24		327	184	23.3	17.13		
3		24		265	275	21.3			
4		24		H	H	H	H		
5		24		275	262	22.3			
6		24							
7		24							
8		24		287	300	18.9			
9		24		236	221	18.1			
10		24		275	317	22.2	9.25		
11		24		252	269	22.7			
12		24		287	326	23.6			
13		24							
14		24							
15		24		295	433	23.4			
16		24		435	339	31.7	13.6		
17		24		477	438	27.7			
18		24		367	477	25.9			
19		24		396	538	26			
20		24							
21		24							
22		24		258	339	20.1			
23		24		295	357	21.6	9.79		
24		24		252	397	20.8			
25		24		420	408	23.2			
26		24		208	265	14.2			
27		24							
28		24							
29		24		220	276	20.7			
30		24		249	307	17.3	5.93		
31		24		309	318	22		99.91	98.44
Monthly Average Limit:									
Monthly Average:				303.5	329.363636	22.131818	11.14	99.91	98.44
Daily Maximum:				477	538	31.7	17.13	99.91	98.44
Daily Minimum:				208	184	14.2	5.93	99.91	98.44

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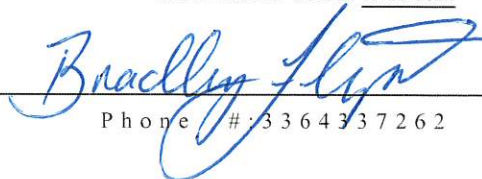
NPDES PERMIT NO.: NC0047384
FACILITY NAME: T.Z. Osborne WWTP
OWNER NAME: City of Greensboro
GRADE: WW-4
eDMR PERIOD: 07-2024 (July 2024)
COMPLIANCE STATUS: Compliant

PERMIT VERSION: 4.0
CLASS: WW-4
ORC: Bradley Todd Flynt
ORC HAS CHANGED: No
VERSION: 1.0
CONTACT PHONE #: 3364337262

PERMIT STATUS: Expired
COUNTY: Guilford
ORC CERT NUMBER: 27171
STATUS: Submitted
SUBMISSION DATE: 08/20/2024

Electronically Certified by Bradley Todd Flynt on 2024-08-20 07:48:39.278

ORC/Certifier Signature: Bradley Todd Flynt

 8/21/24
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 I.I.E.6 of the NPDES permit.

Electronically Signed by Elijah Lamont Williams on 2024-08-20 09:10:38.758

Permittee/Submitter Signature: ***Elijah Lamont Williams

Phone #: 336-373-4632

Date

Permittee Address: 2350 Huffin Mill Rd Mc Leansville NC 273019304

Permit Expiration Date: 06/30/2019

 8/22/2024

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- Glucose/Glutamic Acid standard out of range 7/1; Blank depleted >0.20 mg/l on 7/19; GGA and Blank out of range 7/23-24, RPD >30% on 7/3. Bioassay passed at 100%.

Effluent Aquatic Toxicity Report Form / Phase II Chronic *Ceriodaphnia*

Facility: Osborne NPDES: # NC00 47384 Pipe #: _____ County: Guilford

Laboratory Performing Test: Meritech, Inc.

Comments: _____

x Bradley Flynn x M. Reed
 Signature of O.R.C./Email Address/Phone Number Signature of Laboratory Supervisor

Sample Information	Sample 1	Sample 2	Control	
Collection Start Date	7/8/24	7/10/24		
Grab				
Composite (Duration)	24.0	24.0		
Hardness (mg/l)			84	88
Spec. Cond. (µmhos/cm)	751	897	309	301
Chlorine (mg/l)	<0.1	<0.1		
Sample temp. at receipt	2.6 °C	2.4 °C		

Test Information*	Start Date		End Date		Start Time		End Time	
	Start	Renew 1	Renew 2	Start	Renew 1	Renew 2	Start	Renew 1
	7/10/24		7/17/24		11:11 AM		9:56 AM	
Treatment	100 %	100 %	100 %	Control	Control	Control		
pH Initial	7.79	7.97	7.96	8.09	8.02	8.07		
pH Final	8.08	8.14	8.18	8.05	7.97	8.09		
D.O. Initial	8.30	8.10	8.14	8.18	8.06	7.82		
D.O. Final	7.36	7.33	7.32	7.35	7.18	7.53		
Temp. Initial	24.6	24.4	24.2	24.3	24.4	24.4		
Temp. Final	24.2	24.5	25.6	24.9	24.8	25.5		

		Organism #												Mean
		1	2	3	4	5	6	7	8	9	10	11	12	
Control	#Young	18	19	21	22	18	15	21	17	22	21			19.4
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L			
Effluent% 22.5	#Young	23	23	24	18	23	16	20	21	23	19			21.0
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L			% Red† -8.2
Effluent% 45	#Young	23	23	20	23	23	19	20	19	22	21			21.3
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L			% Red -9.8
Effluent% 75	#Young	21	18	20	21	21	18	20	19	18	19			19.5
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L			% Red -0.5
Effluent% 90	#Young	21	22	20	19	19	20	21	19	19	22			20.2
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L			% Red -4.1
Effluent% 100	#Young	19	18	21	19	18	17	17	20	20	20			18.9
	Adult (L)ive (D)ead	L	L	L	L	L	L	L	L	L	L			% Red 2.6

Chronic Test Results	
Final Control Mortality %	0
% Control 3rd brood	100
Control Repro CV	12.2
48 Hour Mortality	
Control	IWC
0 of 10	0 of 10
Significant? Y	<input checked="" type="radio"/> N
Final Mortality Significant @	% or <input checked="" type="radio"/> No Conc.

Reproduction Analysis:		
Repro. LOEC=	>100 % ; NOEC= 100 %	
Method:		
Normal Distrib?	NO Method: Kolmogorov	
Statistic:	1.0556 Critical: 1.035	
Equal Variances?	YES Method: Bartlett	
Statistic:	9.7956 Critical: 15.09	
Non-Parametric Analysis (if applicable):		
Method: Steel's Many-One Rank Test		
Effluent %	Rank Sum	Critical Sum
22.5	125.0	75.0
45	129.5	75.0
75	102.5	75.0
90	114.0	75.0
100	94.5	75.0
Overall Analysis:		
Result = PASS/FAIL or		
Test LOEC=	>100 % ; NOEC= 100 %	
Chronic Value=	>100 %	

MAIL TO:

ATT: Water Sciences Section
 Aquatic Toxicology Branch
 Division of Water Resources
 1621 Mail Service Center
 Raleigh, NC 27699-1621

* Should use highest test concentration or highest concentration with D.O. >5.0 mg/l
 † Reduction from Control Reproduction Mean

emailed 7-25-24