Alabama Department of Environmental Management adem.alabama.gov

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Montgomery, Alabama 36130-1463
(334) 271-7700 FAX (334) 271-7950

APR 2 0 2020

Billy Joe Driver, Mayor City of Clanton Post Office Box 580 Clanton, AL 35046

RE: Draft Permit

NPDES Permit No. AL0054631 Walnut Creek WWTP Chilton County, Alabama

Dear Mayor Driver:

Transmitted herein is a draft of the referenced permit.

We would appreciate your comments on the permit within 30 days of the date of this letter. Please direct any comments of a technical or administrative nature to the undersigned.

By copy of this letter and the draft permit, we are also requesting comments within the same time frame from EPA.

Please be aware that Part I.C.1.c of your permit requires that you apply for participation in the Department's web-based Electronic Environmental (E2) Reporting System Program for submittal of DMRs upon issuance of this permit unless valid justification as to why you cannot participate is submitted in writing. Please also be aware that Part I.C.2.e of your permit requires that you apply for participation in the Department's web-based electronic environmental (E2) reporting system for submittal of SSOs within 30 days of coverage under this permit unless valid justification as to why you cannot participate is submitted in writing. After issuance of the permit, SSO hotline notifications and hard copy Form 415 SSO reports may be used only with the written approval from the Department. The E2 Program allows ADEM to electronically validate, acknowledge receipt, and upload data to the state's central wastewater database. This improves the accuracy of reported compliance data and reduces costs to both the regulated community and ADEM. The Permittee Participation Package may be downloaded online at https://e2.adem.alabama.gov/npdes or you may obtain a hard copy by submitting a written request or by emailing e2admin@adem.alabama.gov.

Please also be aware that Part IV. of your permit requires that you develop, implement, and maintain a Sanitary Sewer Overflow Response Plan.

The Alabama Department of Environmental Management encourages you to voluntarily consider pollution prevention practices and alternatives at your facility. Pollution Prevention may assist you in complying with effluent limitations, and possibly reduce or eliminate monitoring requirements.

Should you have any questions, please contact the undersigned by email at slee@adem.alabama.gov or by phone at (334) 274-4223.

Sincerely,

Sandra Lee Municipal Section Water Division

/mfc Enclosure

cc: Environmental Protection Agency Email

Ms. Elaine Snyder/U.S. Fish and Wildlife Service Ms. Elizabeth Brown/Alabama Historical Commission Advisory Council on Historic Preservation

Department of Conservation and Natural Resources







NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE:	P	ER	M	IT	ΓEΕ	∃:
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CITY OF CLANTON

POST OFFICE BOX 580

CLANTON, ALABAMA 35046

FACILITY LOCATION:

WALNUT CREEK WWTP

(2.25) MGD

1574 CHILTON COUNTY ROAD 51 CLANTON, ALABAMA

CHILTON COUNTY

PERMIT NUMBER:

AL0054631

RECEIVING WATERS:

WALNUT CREEK

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §\$1251-1388 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §\$\$\$ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$22-22A-17, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

ISSUANCE	. DA	TE:
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EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management

MUNICIPAL SECTION NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

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PART I

DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. Outfall 0011 Discharge Limits - Municipal and Industrial wastewater

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0011, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

			Disc	harge Limitatio	ns*			Monitoring Requirements**				
Parameter	Monthly Average	Weekly Average	Monthly Average	Weekly Average	<u>Daily</u> <u>Minimum</u>	<u>Daily</u> <u>Maximum</u>	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal	
Oxygen, Dissolved (DO)	****	****	*****	****	6.0	****	****	Е	GRAB	С	****	
00300 1 0 0					mg/l							
pH 00400 1 0 0	****	****	****	****	6.0 S .U.	8.5 S.U.	*****	E	GRAB	С	****	
Solids, Total Suspended	562	844	30.0	45.0	****	****	*****	Е	COMP24	С	****	
00530 1 0 0	lbs/day	lbs/day	mg/l	mg/l			l					
Solids, Total Suspended	REPORT	REPORT	REPORT	REPORT	****	****	****	I	COMP24	С	****	
00530 G 0 0	lbs/day	lbs/day	mg/l	mg/l								
Nitrogen, Ammonia Total (As N)	37.5	56.2	2.0	3.0	****	*****	*****	Е	COMP24	С	****	
00610 1 0 0	lbs/day	lbs/day	mg/l	mg/l								
Nitrogen, Kjeldahl Total (As N) 00625 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	****	****	****	Е	COMP24	G	*****	
Nitrite Plus Nitrate Total 1 Det. (As N)	REPORT	REPORT	REPORT	REPORT	****	****	****	E	COMP24	G	****	
00630 1 0 0	lbs/day	lbs/day	mg/l	mg/l								
Phosphorus, Total (As P)	REPORT	REPORT	REPORT	REPORT	****	*****	*****	E	COMP24	G	****	
00665 1 0 0	lbs/day	lbs/day	mg/l	mg/l								
Nickel Total Recoverable	****	****	0.063	****	****	0.537	****	Е	GRAB	G	****	
01074 1 0 0			mg/l			mg/l					1	
Zinc Total Recoverable	*****	*****	0.220	****	****	0.220	*****	Е	GRAB	G	*****	
01094 1 0 0			mg/l			mg/l	<u> </u>			<u> </u>		

^{*} See Part II.C.1. (Bypass); Part II.C.2. (Upset)

(1) Sample Location

I-Influent

E – Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

US - Upstream

DS - Downstream

MW - Monitoring Well

SW - Storm Water

(2) Sample Type: CONTIN - Continuous INSTAN - Instantaneous

INSTAN - Instantaneous COMP-8 - 8-Hour Composite COMP24 - 24-Hour Composite

GRAB – Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week
B - 5 days per week
C - 3 days per week
H - 1 day per quarter

D - 2 days per week J - Annual

E - 1 day per week Q - For Effluent Toxicity
Testing, see Provision IV.B.

(4) Seasonal Limits:

S = Summer (May - November) W = Winter (December - April) ECS = E. coli Summer (May - October)

ECW = E. coli Winter (November – April)

^{**} Monitoring Requirements

2. Outfall 0011 Discharge Limits - Municipal and Industrial wastewater (continued)

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0011, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

			Disc	harge Limitatio	ns*			Monitoring Requirements**				
Parameter	Monthly Average	Weekly Average	Monthly Average	Weekly Average	<u>Daily</u> <u>Minimum</u>	<u>Daily</u> <u>Maximum</u>	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal	
Copper Total Recoverable 01119 1 0 0	****	****	0.014 mg/l	****	****	0.018 mg/l	****	Е	GRAB	G	****	
Flow, In Conduit or Thru Treatment Plant 50050 1 0 0	REPORT MGD	****	****	****	****	REPORT MGD	****	E	CONTIN	A	****	
Chlorine, Total Residual See note (5) (6) 50060 1 0 0	****	****	0.015 mg/l	****	****	0.025 mg/l	****	Е	GRAB	С	****	
E. Coli 51040 1 0 0	****	****	126 ~ col/100mL	****	****	298 col/100mL	****	Е	GRAB	C	ECS	
E. Coli 51040 1 0 0	****	****	548 col/100mL	****	****	2507 col/100mL	****	Е	GRAB	C	ECW	
BOD, Carbonaceous 05 Day, 20C 80082 1 0 0	187 lbs/day	281 lbs/day	10.0 mg/l	15.0 mg/l	****	****	****	Е	COMP24	С	****	
BOD, Carbonaceous 05 Day, 20C 80082 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	****	****	****	I	COMP24	С	****	
BOD, Carb-5 Day, 20 Deg C, Percent Remvl 80091 K 0 0	****	****	****	****	*****	****	85.0%	K	CALCTD	G	****	
Solids, Suspended Percent Removal 81011 K 0 0	****	****	*****	****	****	****	85.0%	K	CALCTD	G	*****	

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

US - Upstream

DS - Downstream

MW - Monitoring Well

SW - Storm Water

(2) Sample Type:

CONTIN - Continuous INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite GRAB – Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2. A - 7 days per week F - 2 days per month

B - 5 days per week G - 1 day per month

C - 3 days per week
D - 2 days per week
J - Annual

E - 1 day per week Q - For Effluent Toxicity

Q - For Effluent Toxicity
Testing, see Provision IV.B.

(4) Seasonal Limits:

S = Summer (May – November) W = Winter (December - April)

ECS = E. coli Summer (May – October) ECW = E. coli Winter (November – April)

- (5) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "*9" or "NODI=9" (if hard copy) on the monthly DMR.
- (6) A measurement of Total Residual Chlorine below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as NODI=B or *B on the discharge monitoring reports.

3. Outfall 001T Discharge Limits - Toxicity testing

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 001T, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

		-	Disc	Monitoring Requirements**							
<u>Parameter</u>	Monthly Average	<u>Weekly</u> <u>Average</u>	Monthly Average	Weekly Average	<u>Daily</u> <u>Minimum</u>	<u>Daily</u> <u>Maximum</u>	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	<u>(4)</u> Seasonal
Toxicity, Ceriodaphnia Chronic	****	Pass = 0	****	****	****	****	****	Е	COMP24	Q	****
61426 1 0 0		Fail = 1									
Toxicity, Pimephales Chronic	****	Pass = 0	****	****	****	****	****	Е	COMP24	Q ·	****
61428 1 0 0		Fail = 1									

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I – Influent

E - Effluent

X – End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

US – Upstream

DS - Downstream

MW - Monitoring Well

SW - Storm Water

(2) Sample Type: CONTIN - Continuous

INSTAN - Instantaneous COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite GRAB – Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week F - 2 days per month B - 5 days per week G - 1 day per month

C - 3 days per week H - 1 day per quarter

D - 2 days per week J - Annual

E - 1 day per week Q - For Effluent Toxicity
Testing, see Provision IV.B.

(4) Seasonal Limits:

S = Summer (May – November) W = Winter (December - April)

ECS = <u>E. coli</u> Summer (May – October) ECW = <u>E. coli</u> Winter (November – April)

4. Outfall 002S Discharge Limits - Stormwater runoff

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee shall monitor from Outfall 002S, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

			Disc	Monitoring Requirements**							
Parameter	Monthly Average	Weekly Average	Monthly Average	Weekly Average	<u>Daily</u> <u>Minimum</u>	<u>Daily</u> <u>Maximum</u>	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
pH	****	****	****	****	REPORT	REPORT	****	SW	GRAB	J	****
00400 SW 0 0					S.U.	S.U.					
Solids, Total Suspended	****	****	****	****	****	REPORT	****	SW	GRAB	J	****
00530 SW 0 0						mg/l			1		
Oil & Grease	****	****	****	****	****	15	****	SW	GRAB	J	****
00556 SW 0 0						mg/l		L	1		
Nitrogen, Ammonia Total (As N)	****	****	****	****	****	REPORT	****	sw	GRAB	J	****
00610 SW 0 0				_	1	mg/l					
Nitrogen, Kjeldahl Total (As N)	****	****	****	****	****	REPORT	****	SW	GRAB	J	****
00625 SW 0 0		ļ				mg/l					
Nitrite Plus Nitrate Total 1 Det. (As N)	****	****	****	****	****	REPORT	****	SW	GRAB	J	****
00630 SW 0 0						mg/l	L				
Phosphorus, Total (As P)	****	****	****	****	****	REPORT	****	SW	GRAB	J	****
00665 SW 0 0						mg/l	L				
Flow, In Conduit or Thru Treatment Plant	*****	****	****	****	****	REPORT	****	SW	CALCTD	J	****
50050 SW 0 0						MGD]			1
E. Coli	****	****	****	****	****	REPORT	****	SW	GRAB	J	****
51040 SW 0 0						col/100mL					
BOD, Carbonaceous 05 Day, 20C	****	****	****	****	****	REPORT	****	SW	GRAB	J	****
80082 SW 0 0	•				1	mg/l					

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

US – Upstream

DS – Downstream

MW - Monitoring Well

SW - Storm Water

(2) Sample Type:

CONTIN - Continuous INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2, A - 7 days per week F - 2 days per month

B - 5 days per week

H - 1 day per quarter C - 3 days per week D - 2 days per week J - Annual

E - 1 day per week

O - For Effluent Toxicity Testing, see Provision IV.B.

G - I day per month

(4) Seasonal Limits:

S = Summer (May - November)W = Winter (December - April)

ECS = E. coli Summer (May – October)

ECW = E. coli Winter (November – April)

5. Outfall 003S Discharge Limits - Stormwater runoff

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee shall monitor from Outfall 003S, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

			Disc	harge Limitatio	ns*			Monitoring Requirements**				
<u>Parameter</u>	Monthly Average	Weekly Average	Monthly Average	<u>Weekly</u> <u>Average</u>	<u>Daily</u> <u>Minimum</u>	<u>Daily</u> <u>Maximum</u>	Percent Removal	(1) <u>Sample</u> <u>Location</u>	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal	
pH 00400 SW 0 0	****	****	****	****	REPORT S.U.	REPORT S.U.	****	sw	GRAB	J	****	
Solids, Total Suspended 00530 SW 0 0	****	****	****	****	****	REPORT mg/l	****	SW	GRAB	J	****	
Oil & Grease 00556 SW 0 0	****	****	****	****	****	15 mg/l	****	SW	GRAB	J	****	
Nitrogen, Ammonia Total (As N) 00610 SW 0 0	****	****	****	****	****	REPORT mg/l	****	SW	GRAB	J	****	
Nitrogen, Kjeldahl Total (As N) 00625 SW 0 0	****	****	****	****	****	REPORT mg/l	****	sw	GRAB	J	****	
Nitrite Plus Nitrate Total 1 Det. (As N) 00630 SW 0 0	****	****	****	****	****	REPORT mg/l	****	sw	GRAB	J	****	
Phosphorus, Total (As P) 00665 SW 0 0	****	****	****	****	****	REPORT mg/l	****	sw	GRAB	J	****	
Flow, In Conduit or Thru Treatment Plant 50050 SW 0 0	****	****	****	****	****	REPORT MGD	****	SW	CALCTD	J	****	
E. Coli 51040 SW 0 0	****	****	****	****	****	REPORT col/100mL	****	SW	GRAB	J	****	
BOD, Carbonaceous 05 Day, 20C 80082 SW 0 0	****	****	****	****	****	REPORT mg/l	****	SW	GRAB	J	****	

^{*} See Part II.C.1. (Bypass); Part II.C.2. (Upset)

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

US - Upstream

DS - Downstream

MW - Monitoring Well

SW - Storm Water

(2) Sample Type:

CONTIN - Continuous INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week F - 2 days per month B - 5 days per week G - 1 day per month

C - 3 days per week H - 1 day per quarter J - Annual

D - 2 days per week

E - 1 day per week Q - For Effluent Toxicity Testing, see Provision IV.B. (4) Seasonal Limits:

S = Summer (May - November)W = Winter (December - April)

ECS = E. coli Summer (May – October)

ECW = E. coli Winter (November – April)

^{**} Monitoring Requirements

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

Sample collection and measurement actions shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit. The effluent sampling point shall be at the nearest accessible location just prior to discharge and after final treatment, unless otherwise specified in the permit.

2. Measurement Frequency

Measurement frequency requirements found in Provision I.A. shall mean:

- Seven days per week shall mean daily.
- Five days per week shall mean any five days of discharge during a calendar weekly period of Sunday through Saturday.
- c. Three days per week shall mean any three days of discharge during a calendar week.
- d. Two days per week shall mean any two days of discharge during a calendar week.
- e. One day per week shall mean any day of discharge during a calendar week.
- f. Two days per month shall mean any two days of discharge during the month that are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean any two days of discharge during that seven day period.
- g. One day per month shall mean any day of discharge during the calendar month.
- h. Quarterly shall mean any day of discharge during each calendar quarter.
- i. The Permittee may increase the frequency of sampling, listed in Provisions I.B.2.a through I.B.2.h; however, all sampling results are to be reported to the Department.

3. Test Procedures

For the purpose of reporting and compliance, Permittees shall use one of the following procedures:

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this permit the Permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.
 - Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the Permittee during permit issuance, reissuance, modification, or during compliance schedule.
 - In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.
- c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.
 - The Minimum Level utilized for procedures a and b above shall be reported on the Permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information:

a. The facility name and location, point source number, date, time and exact place of sampling;

- b. The name(s) of person(s) who obtained the samples or measurements;
- c. The dates and times the analyses were performed;
- d. The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used, including source of method and method number; and
- f. The results of all required analyses.

5. Records Retention and Production

- a. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the Permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records should not be submitted unless requested.
- b. All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.
- 6. Reduction, Suspension or Termination of Monitoring and/or Reporting
 - a. The Director may, with respect to any point source identified in Provision I.A. of this permit, authorize the Permittee to reduce, suspend or terminate the monitoring and/or reporting required by this permit upon the submission of a written request for such reduction, suspension or termination by the Permittee, supported by sufficient data which demonstrates to the satisfaction of the Director that the discharge from such point source will continuously meet the discharge limitations specified in Provision I.A. of this permit.
 - b. It remains the responsibility of the Permittee to comply with the monitoring and reporting requirements of this permit until written authorization to reduce, suspend or terminate such monitoring and/or reporting is received by the Permittee from the Director.
- 7. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. At a minimum, flow measurement devices shall be calibrated at least once every 12 months.

C. DISCHARGE REPORTING REQUIREMENTS

- 1. Reporting of Monitoring Requirements
 - a. The Permittee shall conduct the required monitoring in accordance with the following schedule:
 - (1) MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.
 - (2) QUARTERLY MONITORING shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The Permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring should be reported on the last DMR due for the quarter (i.e., March, June, September and December DMRs).
 - (3) **SEMIANNUAL MONITORING** shall be conducted at least once during the period of January through June and at least once during the period of July through December. The Permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., June and December DMRs).
 - (4) ANNUAL MONITORING shall be conducted at least once during the period of January through December. The Permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter.

Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be reported on the December DMR.

- b. The Permittee shall submit discharge monitoring reports (DMRs) on the forms approved by the Department and in accordance with the following schedule:
 - (1) REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING shall be submitted on a monthly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
 - (2) REPORTS OF QUARTERLY TESTING shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
 - (3) REPORTS OF SEMIANNUAL TESTING shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
 - (4) REPORTS OF ANNUAL TESTING shall be submitted on an annual basis. Unless specified elsewhere in the permit, the first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
- Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports
 (DMRs) required by Provision I.C.1.b. by utilizing the Department's web-based Electronic Environmental (E2)
 Reporting System.
 - (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's E2 Reporting System (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b., unless otherwise directed by the Department.
 - If the E2 Reporting System is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within five calendar days of the E2 Reporting System resuming operation, the permittee shall enter the data into the E2 Reporting System, unless an alternate timeframe is approved by the Department. An attachment should be included with the E2 DMR submittal verifying the original submittal date (date of the fax, copy of dated e-mail, or hand-delivery stamped date), if applicable.
 - (2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.
 - A permittee with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.
 - (3) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
 - (4) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.
 - (5) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules and Regulations, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible

official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:

"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 manage the system, or those persons directly responsible for gathering 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 fine and imprisonment for knowing violations."

e. Discharge Monitoring Reports required by this permit, the AWPCA, and the Department's Rules that are being submitted in hard copy shall be addressed to:

> Alabama Department of Environmental Management Environmental Data Section, Permits & Services Division Post Office Box 301463 Montgomery, Alabama 36130-1463

Certified and Registered Mail containing Discharge Monitoring Reports shall be addressed to:

Alabama Department of Environmental Management Environmental Data Section, Permits & Services Division 1400 Coliseum Boulevard Montgomery, Alabama 36110-2400

f. All other correspondence and reports required to be submitted by this permit, the AWPCA, and the Department's Rules shall be addressed to:

> Alabama Department of Environmental Management Municipal Section, Water Division Post Office Box 301463 Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

Alabama Department of Environmental Management Municipal Section, Water Division 1400 Coliseum Boulevard Montgomery, Alabama 36110-2400

- g. If this permit is a reissuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b. above.
- 2. Noncompliance Notifications and Reports
 - a. The Permittee shall notify the Department if, for any reason, the Permittee's discharge:
 - (1) Does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I.A. of this permit which is denoted by an "(X)";
 - (2) Potentially threatens human health or welfare;
 - (3) Threatens fish or aquatic life;
 - (4) Causes an in-stream water quality criterion to be exceeded;
 - (5) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
 - (6) Contains a quantity of a hazardous substance that may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
 - (7) Exceeds any discharge limitation for an effluent parameter listed in Part I.A. as a result of an unanticipated bypass or upset; or
 - (8) Is an unpermitted direct or indirect discharge of a pollutant to a water of the state. (Note that unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision.)

The Permittee shall orally or electronically provide notification of any of the above occurrences, describing the circumstances and potential effects, to the Director or Designee within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral or electronic notification, the Permittee shall submit a report to the Director or Designee, as provided in Provision I.C.2.c. or I.C.2.e., no later than five days after becoming aware of the occurrence of such discharge or occurrence.

- b. If, for any reason, the Permittee's discharge does not comply with any limitation of this permit, then the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c below. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Provision I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Except for notifications and reports of notifiable SSOs which shall be submitted in accordance with the applicable Provisions of this permit, the Permittee shall submit the reports required under Provisions I.C.2.a. and b. to the Director or Designee on ADEM Form 421, available on the Department's website (http://www.adem.statc.al.us/DeptForms/Form421.pdf). The completed Form must document the following information:
 - (1) A description of the discharge and cause of noncompliance;
 - (2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If the noncompliance is not corrected by the due date of the written report, then the Permittee shall provide an estimated date by which the noncompliance will be corrected; and
 - (3) A description of the steps taken by the Permittee and the steps planned to be taken by the Permittee to reduce or eliminate the noncompliant discharge and to prevent its recurrence.

d. Immediate notification

The Permittee shall provide notification to the Director, the public, the county health department, and any other affected entity such as public water systems, as soon as possible upon becoming aware of any notifiable sanitary sewer overflow. Notification to the Director shall be completed utilizing the Department's web-based electronic environmental SSO reporting system in accordance with Provision I.C.2.e.

- The Department is utilizing a web-based electronic environmental (E2) reporting system for notification and submittal of SSO reports. If the Permittee is not already participating in the E2 Reporting System for SSO reports, the Permittee must apply for participation in the system within 30 days of coverage under this permit unless the Permittee submits in writing valid justification as to why it cannot participate and the Department approves in writing utilization of verbal notifications and hard copy SSO report submittals. Once the Permittee is enrolled in the E2 Reporting System for SSO reports, the Permittee must utilize the system for notification and submittal of all SSO reports unless otherwise allowed by this permit. The Permittee shall include in the SSO reports the information requested by ADEM Form 415. In addition, the Permittee shall include the latititude and longitude of the SSO in the report except when the SSO is a result of an extreme weather event (e.g., hurricane). To participate in the E2 Reporting System for SSO reports, the Permittee Participation Package may be downloaded online at https://e2.adem.alabama.gov/npdes. If the E2 Reporting System is down (i.e., electronic submittal of SSO data cannot be completed due to technical problems originating with the Department's system), the Permittee is not relieved of its obligation to notify the Department or submit SSO reports to the Department by the required submittal date, and the Permittee shall submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include verbal reports, reports submitted via the SSO hotline, or reports submitted via fax, e-mail, mail, or hand-delivery such that they are received by the required reporting date. Within five calendar days of the E2 Reporting System resuming operation, the Permittee shall enter the data into the E2 Reporting System, unless an alternate timeframe is approved by the Department. For any alternate notification, records of the date, time, notification method, and person submitting the notification should be maintained by the Permittee. If a Permittee is allowed to submit SSO reports via an alternate method, the SSO report must be in a format approved by the Department and must be legible.
- f. The Permittee shall maintain a record of all known wastewater discharge points that are not authorized as permitted outfalls, including but not limited to SSOs. The Permittee shall include this record in its Municipal Water Pollution Prevention (MWPP) Annual Reports, which shall be submitted to the Department each year by May 31st for the prior calendar year period beginning January 1st and ending December 31st. The MWPP Annual Reports shall contain a list of all known wastewater discharge points that are not authorized as permitted outfalls and any discharges that occur prior to the headworks of the wastewater treatment plant covered by this permit. The Permittee shall also provide in the MWPP Annual Reports a list of any discharges reported during the applicable time period in accordance with Provision I.C.2.a. The Permittee shall include in its MWPP Annual Reports the following information for each known unpermitted discharge that occurred:
 - (1) The cause of the discharge;

- (2) Date, duration and volume of discharge (estimate if unknown);
- (3) Description of the source (e.g., manhole, lift station);
- (4) Location of the discharge, by latitude and longitude (or other appropriate method as approved by the Department);
- (5) The ultimate destination of the flow (e.g., surface waterbody, municipal separate storm sewer to surface waterbody). Location should be shown on a USGS quad sheet or copy thereof; and
- (6) Corrective actions taken and/or planned to eliminate future discharges.

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

Anticipated Noncompliance

The Permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

2. Termination of Discharge

The Permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

3. Updating Information

- a. The Permittee shall inform the Director of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the Permittee shall furnish the Director with an update of any information provided in the permit application.
- b. If the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

4. Duty to Provide Information

The Permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

E. SCHEDULE OF COMPLIANCE

1. Compliance with discharge limits

The Permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

2. Schedule

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

2. Best Management Practices (BMP)

- a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his
 designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The Permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The Permittee shall prepare, submit for approval and implement a BMP Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

3. Certified Operator

The Permittee shall not operate any wastewater treatment plant unless the competency of the operator to operate such plant has been duly certified by the Director pursuant to AWPCA, and meets the requirements specified in ADEM Administrative Code, Rule 335-10-1.

B. OTHER RESPONSIBILITIES

1. Duty to Mitigate Adverse Impacts

The Permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

Right of Entry and Inspection

The Permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:

- (1) Enter upon the Permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
- (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permits;
- (3) Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- (4) Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

C. BYPASS AND UPSET

Bypass

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:
 - (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;
 - (2) It enters the same receiving stream as the permitted outfall; and
 - (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;

- (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance);
- (3) The Permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the Permittee is granted such authorization, and the Permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
- d. The Permittee has the burden of establishing that each of the conditions of Provision II. C. 1. b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

2. Upset

- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
 - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that:
 - (i) An upset occurred;
 - (ii) The Permittee can identify the specific cause(s) of the upset;
 - (iii) The Permittee's facility was being properly operated at the time of the upset; and
 - (iv) The Permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.
- b. The Permittee has the burden of establishing that each of the conditions of Provision II C. 2. a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I. A. of this permit.

D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES

1. Duty to Comply

- a. The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.
- b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a Permittee in an enforcement action.
- c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
- d. The Permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.
- e. Nothing in this permit shall be construed to preclude or negate the Permittee's responsibility to apply for, obtain, or comply with other Federal, State, or Local Government permits, certifications, or licenses or to preclude from obtaining other federal, state, or local approvals, including those applicable to other ADEM programs and regulations.

2. Removed Substances

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.

3. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the Permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the

primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the Permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

4. Compliance With Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Boulevard Montgomery, Alabama 36110-2059.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE

- 1. Duty to Reapply or Notify of Intent to Cease Discharge
 - a. If the Permittee intends to continue to discharge beyond the expiration date of this permit, the Permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the Permittee does not intend to continue discharge beyond the expiration of this permit, the Permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.
 - b. Failure of the Permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

2. Change in Discharge

Prior to any facility expansion, process modification or any significant change in the method of operation of the Permittee's treatment works, the Permittee shall provide the Director with information concerning the planned expansion, modification or change. The Permittee shall apply for a permit modification at least 180 days prior to any facility expansion, process modification, any significant change in the method of operation of the Permittee's treatment works or other actions that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant or could result in an additional discharge point. This condition applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.

3. Transfer of Permit

This permit may not be transferred or the name of the Permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new Permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the Permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership or control of the Permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership or control, he may decide not to modify the existing permit and require the submission of a new permit application.

4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
 - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
 - (3) If modification or revocation and reissuance is requested by the Permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;

- (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
- (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
- (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
- (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
- (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
- (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
- (8) To agree with a granted variance under 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(a) of the FWPCA or for fundamentally different factors;
- (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
- (10) When required by the reopener conditions in this permit;
- (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
- (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
- (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
- (14) When requested by the Permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

5. Termination

This permit may be terminated during its term for cause, including but not limited to, the following:

- a. Violation of any term or condition of this permit;
- The Permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the
 permit issuance process or the Permittee's misrepresentation of any relevant facts at any time;
- c. Materially false or inaccurate statements or information in the permit application or the permit;
- d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
- e. The Permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
- f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
- g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the Permittee; or
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. Suspension

This permit may be suspended during its term for noncompliance until the Permittee has taken action(s) necessary to achieve compliance.

Stay

The filing of a request by the Permittee for modification, suspension or revocation of this permit, in whole or in part, does not stay any permit term or condition.



F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the Permittee, and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition, and the Permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the Permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

- 1. The Permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new direct discharger prior to approval and permitting, if applicable, of the discharge by the Department.
- The Permittee shall not allow an existing indirect discharger to increase the quantity or change the character of its
 wastewater, other than domestic wastewater, prior to approval and permitting, if applicable, of the increased discharge by
 the Department.
- 3. The Permittee shall report to the Department any adverse impact caused or believed to be caused by an indirect discharger on the treatment process, quality of discharged water, or quality of sludge. Such report shall be submitted within seven days of the Permittee becoming aware of the adverse impacts.

H. PROHIBITIONS

The Permittee shall not allow, and shall take effective enforcement action to prevent and terminate, the introduction of any of the following into its treatment works by industrial users:

- 1. Pollutants which create a fire or explosion hazard in the treatment works;
- 2. Pollutants which will cause corrosive structural damage to the treatment works, or dischargers with a pH lower than 5.0 s.u., unless the works are specifically designed to accommodate such discharges;
- 3. Solid or viscous pollutants in amounts which will cause obstruction of flow in sewers, or other interference with the treatment works;
- Pollutants, including oxygen demanding pollutants, released in a discharge of such volume or strength as to cause interference in the treatment works:
- 5. Heat in amounts which will inhibit biological activity in the treatment plant resulting in interference or in such quantities that the temperature of the treatment plant influent exceeds 40°C (104° F) unless the treatment plant is designed to accommodate such heat; and
- Pollutants in amounts which exceed any applicable pretreatment standard under Section 307 of FWPCA or any approved revisions thereof.

PART III ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. CIVIL AND CRIMINAL LIABILITY

Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

2. False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

3. Permit Enforcement

- a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA, and as such, any terms, conditions, or limitations of the permit are enforceable under state and federal law.
- b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes:
 - (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
 - (2) An action for damages;
 - (3) An action for injunctive relief; or
 - (4) An action for penalties.
- c. If the Permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the Permittee has made a timely and complete application for reissuance of the permit:
 - (1) Initiate enforcement action based upon the permit which has been continued;
 - (2) Issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
 - (3) Reissue the new permit with appropriate conditions; or
 - (4) Take other actions authorized by these rules and AWPCA.

4. Relief from Liability

Except as provided in Provision II. C. 1. (Bypass) and Provision II. C. 2. (Upset), nothing in this permit shall be construed to relieve the Permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties to which the Permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

D. AVAILABILITY OF REPORTS

Except for data determined to be confidential under <u>Code of Alabama</u> 1975, Section 22-22-9(c), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential.

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

- 1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
- 2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
- 3. Construction has begun when the owner or operator has:
 - a. Begun, or caused to begin as part of a continuous on-site construction program:
 - (1) Any placement, assembly, or installation of facilities or equipment; or
 - (2) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which are necessary for the placement, assembly, or installation of new source facilities or equipment; or
 - b. Entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.
- 4. Final plans and specifications for a waste treatment facility at a new source or new discharger, or a modification to an existing waste treatment facility must be submitted to and examined by the Department prior to initiating construction of such treatment facility by the Permittee.
- 5. Upon completion of construction of waste treatment facilities and prior to operation of such facilities, the Permittee shall submit to the Department a certification from a registered professional engineer, licensed to practice in the State of Alabama, that the treatment facilities have been built according to plans and specifications submitted to and examined by the Department.

F. COMPLIANCE WITH WATER QUALITY STANDARDS

- On the basis of the Permittee's application, plans, or other available information, the Department has determined that
 compliance with the terms and conditions of this permit should assure compliance with the applicable water quality
 standards.
- 2. Compliance with permit terms and conditions notwithstanding, if the Permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the Permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
- 3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification, and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

G. GROUNDWATER

Unless specifically authorized under this permit, this permit does not authorize the discharge of pollutants to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem, and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

H. DEFINITIONS

- Average monthly discharge limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
- 2. Average weekly discharge limitation means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).

- 3. Arithmetic Mean means the summation of the individual values of any set of values divided by the number of individual values
- AWPCA means the Alabama Water Pollution Control Act.
- 5. BOD means the five-day measure of the pollutant parameter biochemical oxygen demand.
- 6. Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
- 7. CBOD means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
- 8. Daily discharge means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
- 9. Daily maximum means the highest value of any individual sample result obtained during a day.
- 10. Daily minimum means the lowest value of any individual sample result obtained during a day.
- 11. Day means any consecutive 24-hour period.
- 12. Department means the Alabama Department of Environmental Management.
- 13. Director means the Director of the Department.
- 14. Discharge means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state". <u>Code of Alabama</u> 1975, Section 22-22-1(b)(9).
- 15. Discharge Monitoring Report (DMR) means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
- 16. DO means dissolved oxygen.
- 17. 8HC means 8-hour composite sample, including any of the following:
 - a. The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 1 hour over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
 - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
- 18. EPA means the United States Environmental Protection Agency.
- 19. FC means the pollutant parameter fecal coliform.
- 20. Flow means the total volume of discharge in a 24-hour period.
- 21. FWPCA means the Federal Water Pollution Control Act.
- 22. Geometric Mean means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
- 23. Grab Sample means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
- 24. Indirect Discharger means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
- 25. Industrial User means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
- 26. MGD means million gallons per day.
- 27. Monthly Average means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.
- 28. New Discharger means a person, owning or operating any building, structure, facility or installation:
 - a. From which there is or may be a discharge of pollutants;
 - From which the discharge of pollutants did not commence prior to August 13, 1979, and which is not a new source;
 and

- c. Which has never received a final effective NPDES permit for dischargers at that site.
- 29. NH3-N means the pollutant parameter ammonia, measured as nitrogen.
- 30. Notifiable sanitary sewer overflow means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:
 - a. Reaches a surface water of the State; or
 - b. May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.
- 31. Permit application means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
- 32. Point source means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
- 33. Pollutant includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
- 34. Privately Owned Treatment Works means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
- 35. Publicly Owned Treatment Works means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
- 36. Receiving Stream means the "waters" receiving a "discharge" from a "point source".
- 37. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- 38. Significant Source means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
- 39. TKN means the pollutant parameter Total Kjeldahl Nitrogen.
- 40. TON means the pollutant parameter Total Organic Nitrogen.
- 41. TRC means Total Residual Chlorine.
- 42. TSS means the pollutant parameter Total Suspended Solids.
- 43. 24HC means 24-hour composite sample, including any of the following:
 - a. The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
 - A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
- 44. Upset means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- 45. Waters means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground, or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership, or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
- 46. Week means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.

47. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART IV SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. SLUDGE MANAGEMENT PRACTICES

1. Applicability

- a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.
- b. Provisions of Provision IV.A. do not apply to:
 - (1) Sewage sludge generated or treated in a privately owned treatment works operated in conjunction with industrial manufacturing and processing facilities and which receive no domestic wastewater.
 - (2) Sewage sludge that is stored in surface impoundments located at the treatment works prior to ultimate disposal.

2. Submitting Information

- a. If applicable, the Permittee must submit annually with its Municipal Water Pollution Prevention (MWPP) report the following:
 - (1) Type of sludge stabilization/digestion method;
 - (2) Daily or annual sludge production (dry weight basis);
 - (3) Ultimate sludge disposal practice(s).
- b. The Permittee shall provide sludge inventory data to the Director as requested. These data may include, but are not limited to, sludge quantity and quality reported in Provision IV.A.2.a as well as other specific analyses required to comply with State and Federal laws regarding solid and hazardous waste disposal.
- c. The Permittee shall give prior notice to the Director of at least 30 days of any change planned in the Permittee's sludge disposal practices.

3. Reopener or Modification

- a. Upon review of information provided by the Permittee as required by Provision IV.A.2. or, based on the results of an on-site inspection, the permit shall be subject to modification to incorporate appropriate requirements.
- b. If an applicable "acceptable management practice" or if a numerical limitation for a pollutant in sewage sludge promulgated under Section 405 of FWPCA is more stringent than the sludge pollutant limit or acceptable management practice in this permit. This permit shall be modified or revoked or reissued to conform to requirements promulgated under Section 405. The Permittee shall comply with the limitations no later than the compliance deadline specified in applicable regulations as required by Section 405 of FWPCA.

B. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR CHRONIC TOXICITY

1. Chronic Toxicity Test

- a. The permittee shall perform short-term chronic toxicity tests on the wastewater at Outfall 0011.
- b. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which is 75 percent effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year low flow period.
- c. Any test result that shows a statistically significant reduction in survival, growth, or reproduction between the control and test samples at the 95% confidence level indicates chronic toxicity and shall constitute noncompliance with this permit.

2. General Test Requirements

- a. A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests. Samples shall be collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-013 (most current edition) or another control water selected by the Permittee and approved by the Department.
- b. Test results shall be deemed unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period for the following:
 - (1) For testing with P. promelas:, effluent toxicity tests with control survival of less than 80% or if dry weight per surviving control organism is less than 0.25 mg;

- (2) For testing with C. dubia:, if the number of young per surviving control organism is less than 15 or if less than 60% of surviving control females produce three broods; or
- (3) If the other requirements of the EPA Test Procedure are not met.
- c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are to be reported to the Department along with an explanation of the tests performed and the test results.
- d. Toxicity tests shall be conducted for the duration of this permit in the month of **November**. Should results from the Annual Toxicity test indicate that Outfall 001-1 exhibits chronic toxicity, then the Permittee must conduct the follow-up testing described in Part IV.B.4.a. In addition, the Permittee may then also be required to conduct toxicity testing in the months of FEBRUARY, MAY, AUGUST, and NOVEMBER.

3. Reporting Requirements

- a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
- b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Sections 2 and 6 shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month that tests were performed.

4. Additional Testing Requirements

- a. If chronic toxicity is indicated (i.e., noncompliance with permit limit), then the Permittee must perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week following the date that the Permittee became aware of the permit noncompliance. The results of these follow-up tests shall be submitted to the Department no later than 28 days following the month the tests were performed.
- b. After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols and guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-91-003, EPA/600/R-92/081, EPA/833/B-99/022, and/or EPA/600/6-91/005F)

5. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The Larval Survival and Growth Test, Method 1000.0, shall be used for the fathead minnow (Pimephales promelas) test and the Survival and Reproduction Test, Method 1002.0, shall be used for the cladoceran (Ceriodaphnia dubia) test.

6. Effluent Toxicity Testing Reports

The following information shall be submitted with each DMR unless otherwise directed by the Department. The Department may at any times suspend or reinstate this requirement or may decrease or increase the frequency of submittals.

a. Introduction

- (1) Facility name, location and county
- (2) Permit number
- (3) Toxicity testing requirements of permit
- (4) Name of receiving water body
- (5) Contract laboratory information (if tests are performed under contract)
 - (a) Name of firm
 - (b) Telephone number
 - (c) Address
- (6) Objective of test

b. Plant Operations

- (1) Discharge Operating schedule (if other than continuous)
- (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)
- (3) Design flow of treatment facility at time of sampling

Source of Effluent and Dilution Water

- (1) Effluent samples
 - (a) Sampling point
 - (b) Sample collection dates and times (to include composite sample start and finish times)
 - (c) Sample collection method
 - (d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (e) Lapsed time from sample collection to delivery
 - (f) Lapsed time from sample collection to test initiation
 - (g) Sample temperature when received at the laboratory
- (2) Dilution Water
 - (a) Source
 - (b) Collection/preparation date(s) and time(s)
 - (c) Pretreatment (if applicable)
 - (d) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)

d. Test Conditions

- (1) Toxicity test method utilized
- (2) End point(s) of test
- (3) Deviations from referenced method, if any, and reason(s)
- (4) Date and time test started
- (5) Date and time test terminated
- (6) Type and volume of test chambers
- (7) Volume of solution per chamber
- (8) Number of organisms per test chamber
- (9) Number of replicate test chambers per treatment(10) Test temperature, pH, and dissolved oxygen as recommended by the method (to include ranges)
- (11) Specify if aeration was needed
- (12) Feeding frequency, amount, and type of food
- (13) Specify if (and how) pH control measures were implemented
- (14) Light intensity (mean)
- e. Test Organisms
 - (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease(s) treatment (if applicable)

f. Quality Assurance

- (1) Reference toxicant utilized and source
- (2) Date and time of most recent chronic reference toxicant test(s), raw data, and current control chart(s). (The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.)
- (3) Dilution water utilized in reference toxicant test
- (4) Results of reference toxicant test(s) (NOEC, IC25, etc.); report concentration-response relationship and evaluate test sensitivity
- (5) Physical and chemical methods utilized

g. Results

- (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
- (2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)
- (3) Indicate statistical methods used to calculate endpoints
- (4) Provide all physical and chemical data required by method
- (5) Results of test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sublethal endpoints determined by hypothesis testing.

h. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits

(2) Actions to be taken

1/ Adapted from "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", Fourth Edition, October 2002 (EPA 821-R-02-013), Section 10, Report Preparation.

C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS

- 1. If chlorine is not utilized for disinfection purposes, TRC monitoring under Part I of this Permit is not required. If TRC monitoring is not required (conditional monitoring), "*9" or "NODI = 9" (if hard copy) should be reported on the DMR forms.
- 2. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If chlorine is not detected prior to actual discharge to the receiving stream using one of these methods (i.e., the analytical result is less than the detection level), the Permittee shall report on the DMR form "*B", "NODI = B" (if hard copy), or "0". The Permittee shall then be considered to be in compliance with the daily maximum concentration limit for TRC.
- 3. This permit contains a maximum allowable TRC level in the effluent. The Permittee is responsible for determining the minimum TRC level needed in the chlorine contact chamber to comply with <u>E.coli</u> limits. The effluent shall be dechlorinated if necessary to meet the maximum allowable effluent TRC level.
- 4. The sample collection point for effluent TRC shall be at a point downstream of the chlorine contact chamber (downstream of dechlorination if applicable). The exact location is to be approved by the Director.

D. PLANT CLASSIFICATION

The Permittee shall report to the Director within 30 days of the effective date of this permit, the name, address and operator number of the certified wastewater operator in responsible charge of the facility. Unless specified elsewhere in this permit, this facility shall be classified in accordance with ADEM Admin. Code R. 335-10-1-.03.

E. POLLUTANT SCANS

The Permittee shall sample and analyze for the pollutants listed in 40 CFR 122 Appendix J Table 2. The Permittee shall provide data from a minimum of three samples collected within the four and one half years prior to submitting a permit application. Samples must be representative of the seasonal variation in the discharge from each outfall.

F. STORM WATER REQUIREMENTS

1. Prohibitions

- a. The Permittee shall not allow the discharge of non-storm water into permitted storm water outfall(s) unless said discharge is already subject to an NPDES permit.
- b. Pollutants removed in the course of treatment or control shall be disposed in a manner that complies with all applicable Department rules and regulations.

2. Operational and Management Practices

The permittee shall prepare and implement a Storm Water Pollution Prevention (SWPP) Plan within one year of the effective date of this permit.

- a. In the SWPP Plan, the Permittee shall:
 - (1) Assess the treatment plant site by developing and presenting site drainage maps, materials inventory, and best management operational practices. The plan shall also include a description of all spill or leak sources;
 - (2) Describe mechanisms and procedures to prevent the contact of sewage sludge, screenings, raw or partially treated wastewater, or any other waste product or pollutant with storm water discharged from the facility;
 - (3) Provide for daily inspection on workdays of any structures that function to prevent storm water pollution or that remove pollutants from storm water;
 - (4) Provide for daily inspection of the facility in general to ensure that the SWPP Plan is continually implemented and effective;
 - (5) Include a Best Management Practices (BMP) Plan that, as a minimum, addresses housekeeping, preventative maintenance, spill prevention and response, and non-storm water discharges;
 - (6) Describe mechanisms and procedures to provide sediment control sufficient to prevent or control storm water pollution storm water by particles resulting from soil or sediment migration from the site due to significant clearing, grading, or excavation activities;

- (7) Designate by position or name the person or persons responsible for the day to day implementation of the SWPP Plan; and
- (8) Bear the signature of an individual meeting signatory requirements as defined in ADEM Administrative Code, Rule 335-6-6-.09.
- b. The Director or his designee may notify the permittee at any time that the SWPP Plan is deficient and will require correction of the deficiency. The permittee shall correct any SWPP Plan deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

c. Administrative Procedures

- A copy of the SWPP Plan shall be maintained at the facility and shall be available for inspection by the Department.
- (2) A log of daily inspections required by Provision IV.F.2.a.(3.) of the permit shall be maintained at the facility and shall be made available for inspection by the Department upon request. The log shall contain records of all inspections performed and each daily entry shall be signed by the person performing the inspection.
- (3) The Permittee shall provide training for any personnel required to implement the SWPP Plan and shall retain documentation of such training at the facility. Training records for all personnel shall be available for inspection by the Department. Training shall be performed prior to the date implementation is required.

3. Monitoring Requirements

- a. Storm water discharged through each storm water outfall shall be sampled once per calendar year, using first flush grab samples (FFGS) collected during the first 30 minutes of discharge.
- b. The total volume of storm water discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for the storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained in accordance with Provision I.B.5. of this permit. The volume may be measured using flow measurement devices or may be estimated using any method approved in writing by the Department.

G. SANITARY SEWER OVERFLOW RESPONSE PLAN

1. SSO Response Plan

Within 120 days of the effective date of this Permit, the Permittee shall develop a Sanitary Sewer Overflow (SSO) Response Plan to establish timely and effective methods for responding to <u>notifiable</u> sanitary sewer overflows. The SSO Response Plan shall address each of the following:

a. General Information:

- (1) Approximate population of City/Town, if applicable
- (2) Approximate number of customers served by the Permittee
- (3) Identification of any subbasins designated by the Permittee, if applicable
- (4) Identification of estimated linear feet of sanitary sewers
- (5) Number of Pump/Lift Stations in the collection system

b. Responsibility Information:

- (1) The title(s) and contact information of key position(s) who will coordinate the SSO response, including information for a backup coordinator in the event that the primary SSO coordinator is unavailable. The SSO coordinator is the person responsible for assessing the SSO and initiating a series of response actions based on the type, severity, and destination of the SSO, except for routine SSOs for which the coordinator may preapprove written procedures. Routine SSOs are those for which the corrective action procedures are generally consistent.
- (2) The title(s), and contact information of key position(s) who will respond to SSOs, including information for backup responder(s) in the event the primary responder(s) are unavailable (i.e., position(s) who provide notification to the Department, the public, the county health department, and other affected entities such as

public water systems; position(s) responsible for organizing crews for response; position(s) responsible for addressing public inquiries)

c. SSO and Surface Water Assessment

- (1) Identification of locations within the collection system at which an SSO is likely to occur (e.g., based upon historical SSOs, lift stations where electricity may be lost, etc.)
- (2) A map of the general collection system area, including identification of surface waterbodies and the location(s) of public drinking water source(s). Mapping of all collection system piping, pump stations, etc. is not required; however, if this information is already available, it should be included.
- (3) Identification of surface waterbodies within the collection system area which are classified as Swimming according to ADEM Admin. Code chap. 335-6-11. References available to assist in this requirement include: http://www.adem.state.al.us/alEnviroRegLaws/files/Division6Vol1.pdf and http://gis.adem.alabama.gov/ADEM_Dash/use_class/index.html
- (4) Identification of surface waterbodies within the collection system area which are not classified as Swimming as indicated in paragraph c above, but are known locally as areas where swimming occurs or as areas that are heavily recreated

d. Public Reporting of SSOs

- (1) Contact information for the public to report an SSO to the Permittee, during both normal and outside of normal business hours (e.g., telephone number, website, email address, etc.)
- (2) Information requested from the person reporting an SSO to assist the Permittee in identifying the SSO (e.g., date, time, location, contact information)
- (3) Procedures for communication of the SSO report to the appropriate positions for follow-up investigation and response, if necessary
- e. Procedures to immediately notify the Department, the county health department, and other affected entities (such as public water systems) upon becoming aware of notifiable SSOs

f. Public Notification Methods for SSOs

- (1) A listing of methods that are feasible, as determined by the Permittee, for public notifications (e.g., flyers distributed to nearby residents; signs posted at the location of the SSO, where the SSO enters a water of the state, and/or at a central public location; signs posted at fishing piers, boat launches, parks, swimming waterbodies, etc.; website and/or social media notifications; local print or radio and broadcast media notifications; "opt in" email, text message, or automated phone message notifications)
 - (a) If signage is a feasible method for public notification, procedures for use and removal of signage (e.g., availability and maintenance of signs, appropriate duration of postings)
- (2) Minimum information to be included in public notifications (e.g., identification that an SSO has occurred, date, duration if known, estimated volume if known, location of the SSO by street address or other appropriate method, initial destination of the SSO)
- (3) Procedures developed by the Permittee for determining the appropriate public notification method(s) based upon the potential for public exposure to health risks associated with the SSO
- g. Standard Procedures shall be developed by the Permittee and shall include, at a minimum:
 - General SSO Response Procedures (e.g., procedures for dispatching staff to assess/correct an SSO; procedures
 for routine SSO corrective actions such as those for sewer blockages, overflowing manholes, line breakages,
 pump station power failure, etc.; procedures for disinfection of affected area, if applicable);
 - (2) Procedures for collection and proper disposal of the SSO, if feasible.
 - (3) General procedures for coordinating instream water quality monitoring, including, but not limited to, procedures for mobilizing staff, collecting samples, and typical test methods should the Department or the Permittee

- determine monitoring is appropriate following an SSO. Identification of a contractor who will collect and analyze the sample(s) may be listed in lieu of the procedures.
- (4) References to other documents (such as Standard Operating Procedures for SSO Responses) may be acceptable for this section; however, the referenced document shall be identified and shall be reviewed at a frequency of at least that required by the Administrative Procedures Section.
- h. Date of the SSO Response Plan, dates of all modifications and/or reviews, the title and signature of the reviewer(s) for each date and the signature of the responsible official or the appropriate designee.

2. SSO Response Plan Implementation

Except as otherwise required by this Permit, the Permittee shall fully implement the SSO Response Plan as soon as practicable, but no later than 180 days after the effective date of this Permit.

- 3. Department Review of the SSO Response Plan
 - a. When requested by the Director or his designee, the Permittee shall make the SSO Response Plan available for review by the Department.
 - b. Upon review, the Director or his designee may notify the Permittee that the SSO Response Plan is deficient and require modification of the Plan.
 - c. Within thirty days of receipt of notification, or an alternate timeframe as approved by the Department, the Permittee shall modify any SSO Response Plan deficiency identified by the Director or his designee and shall certify to the Department that the modification has been made.

4. SSO Response Plan Administrative Procedures

- a. The Permittee shall maintain a copy of the SSO Response Plan at the permitted facility or an alternate location approved by the Department in writing and shall make it available for inspection by the Department.
- b. The Permittee shall make a copy of the SSO Response Plan available to the public upon written request within 30 days of such request. The Permittee may redact information which may present security issues, such as location of public water supplies, identification of specific details of vulnerabilities, employee information, etc.
- c. The Permittee shall provide training for any personnel required to implement the SSO Response Plan and shall retain at the facility documentation of such training. This documentation shall be available for inspection by the Department. Training shall be provided for existing personnel prior to the date by which implementation of the SSO Response Plan is required and for new personnel as soon as possible. Should significant revisions be made to the SSO Response Plan, training regarding the revisions shall be conducted as soon as possible.
- d. The Permittee shall complete a review and evaluation of the SSO Response Plan at least once every three years.

 Documentation of the SSO Response Plan review and evaluation shall be signed and dated by the responsible official or the appropriate designee as part of the SSO Response Plan.



Alabama Department of Environmental Management adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 Post Office Box 301463

Montgomery, Alabama 36130-1463

(334) 271-7700 FAX (334) 271-7950

FACT SHEET

APPLICATION FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT TO DISCHARGE POLLUTANTS TO WATERS OF THE STATE OF ALABAMA

Date: September 3, 2019 Prepared By: Sandra Lee

NPDES Permit No. AL0054631

1. Name and Address of Applicant:

City of Clanton Post Office Box 580 Clanton, AL 35046

2. Name and Address of Facility:

Walnut Creek WWTP 1574 Chilton County Road 51 Clanton, Alabama 35046

3. Description of Applicant's Type of Facility and/or Activity Generating the Discharge:

Waste Water Treatment Plant

4. Applicant's Receiving Waters

Receiving Waters

Classifications

Walnut Creek

F&W

For the Outfall latitude and longitude see the permit application.

5. Permit Conditions:

See attached Rationale and Draft Permit.

6. PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS

a. Comment Period

The Alabama Department of Environmental Management proposes to issue this NPDES permit subject to the limitations and special conditions outlined above. This determination is tentative.

Interested persons are invited to submit written comments on the draft permit to the following address:

Russell A. Kelly, Chief Permits and Services Division

Birmingham Branch 110 Vulcan Road Birmingham, AL 35209-4702 (205) 942-6168 (205) 941-1603 (FAX) Decatur Branch 2715 Sandlin Road, S.W. Decatur, AL 35603-1333 (256) 353-1713 (256) 340-9359 (FAX)



Mobile Branch 2204 Perimeter Road Mobile, AL 36615-1131 (251) 450-3400 (251) 479-2593 (FAX) Mobile-Coastal 3664 Dauphin Street, Suite B Mobile, AL 36608 (251) 304-1176 (251) 304-1189 (FAX) Alabama Department of Environmental Management 1400 Coliseum Blvd

(Mailing Address: Post Office Box 301463; Zip 36130-1463) Montgomery, Alabama 36110-2059 (334) 271-7714

All comments received prior to the closure of the public notice period (see public notice for date) will be considered in the formulation of the final determination with regard to this permit.

b. Public Hearing

A written request for a public hearing may be filed within the public notice period and must state the nature of the issues proposed to be raised in the hearing. A request for a hearing should be filed with the Department at the following address:

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

The Director shall hold a public hearing whenever it is found, on the basis of hearing requests, that there exists a significant degree of public interest in a permit application or draft permit. The Director may hold a public hearing whenever such a hearing might clarify one or more issues involved in the permit decision. Public notice of such a hearing will be made in accordance with ADEM Admin. Code r. 335-6-6-21.

c. Issuance of the Permit

All comments received during the public comment period shall be considered in making the final permit decision. At the time that any final permit decision is issued, the Department shall prepare a response to comments in accordance with ADEM Admin. Code r. 335-6-6-.21. The permit record, including the response to comments, will be available to the public via the eFile System (http://app.adem.alabama.gov/eFile/) or an appointment to review the record may be made by writing the Permits and Services Division at the above address.

Unless a request for a stay of a permit or permit provision is granted by the Environmental Management Commission, the proposed permit contained in the Director's determination shall be issued and effective, and such issuance will be the final administrative action of the Alabama Department of Environmental Management.

d. Appeal Procedures

As allowed under ADEM Admin. Code chap. 335-2-1, any person aggrieved by the Department's final administrative action may file a request for hearing to contest such action. Such requests should be received by the Environmental Management Commission within thirty days of issuance of the permit. Requests should be filed with the Commission at the following address:

Alabama Environmental Management Commission 1400 Coliseum Blvd (Mailing Address: Post Office Box 301463; Zip 36130-1463) Montgomery, Alabama 36110-2059 All requests must be in writing and shall contain the information provided in ADEM Admin. Code r. 335-2-1-.04.

NPDES PERMIT RATIONALE

NPDES Permit No: AL0054631 Date: September 23, 2019

Permit Applicant: City of Clanton

Post Office Box 580 Clanton, Alabama 35046

Location: Walnut Creek WWTP

1574 Chilton County Road 51 Clanton, Alabama 35046

Draft Permit is: Initial Issuance:

Reissuance due to expiration: X Modification of existing permit: Revocation and Reissuance:

Basis for Limitations: Water Quality Model: NH₃-N, DO, CBOD₅

Reissuance with no modification: pH, NH₃-N, DO, CBOD₅, TRC, TSS, TSS

Percent Removal, CBOD5 Percent Removal, Total Recoverable Copper, Total Recoverable

Nickel, Total Recoverable Zinc

Instream calculation at 7Q10: 75%

Toxicity based: TRC

Secondary Treatment Levels: TSS, TSS Percent Removal, CBOD₅ Percent

Removal

Other (described below): pH, E. Coli, Total Recoverable Copper, Total

Recoverable Nickel, Total Recoverable Zinc

Design Flow in Million Gallons per Day: 2.25 MGD

Major: Yes

Description of Discharge: Outfall Number 001;

Effluent discharge to Walnut Creek, which is classified as Fish and Wildlife.

Outfall Number 002;

Stormwater runoff to Walnut Creek, which is classified as Fish and Wildlife.

Outfall Number 003;

Stormwater runoff to Walnut Creek, which is classified as Fish and Wildlife.

Discussion: This permit is a reissuance due to expiration.

The pH limits for Outfall 0011 were developed consistent with the Water-Use designation of the receiving stream and the Municipal Section's Permit Development Rationale. The daily maximum pH

limit is 8.5 s.u. and the daily minimum is 6.0 s.u. The monitoring frequency is three times per week. Flow will be monitored continuously, seven days per week.

The discharge limits for 5 Day Carbonaceous Biochemical Oxygen Demand (CBOD₅), Dissolved Oxygen (DO), and Total Ammonia as Nitrogen (NH₃N), for Outfall 0011 were developed by the Municipal Permitting Section based on a Waste Load Allocation (WLA) model performed by the Department's Water Quality Branch on October 9, 2013. The monthly average limits for CBOD₅ and NH₃N, are 10.0 mg/l and 2.0 mg/l, respectively. The daily minimum for DO is 6.0 mg/l. The monitoring frequency will be three times per week. A minimum percent removal of 85 percent is imposed for CBOD₅ based on 40 CFR 133.102. The percent removal will be calculated once per month.

The monthly average TSS limit is established at 30.0 mg/l in accordance with 40 CFR 133.102. The monitoring frequency will be three times per week. A minimum percent removal 85 percent is imposed for TSS based on 40 CFR 133.102. The percent removal will be calculated once per month.

The Department revised bacteriological criteria in ADEM Administrative Code R.335-6-10-.09. As a result, this permit includes <u>E. coli</u> limits and seasons that are consistent with the revised regulations. The imposed <u>E. coli</u> limits were determined based on the water-use classification of the receiving stream. Since Walnut Creek is classified as Fish & Wildlife, the limits for May – October are 126 col/100ml (monthly average) and 298 col/100ml (daily maximum), while the limits for November – April are 548 col/100ml (monthly average) and 2507 col/100ml (daily maximum). The monitoring frequency will be three times per week.

This permit imposes monthly monitoring for the following nutrient-related parameters: Total Phosphorus (TP), Total Kjeldahl Nitrogen (TKN) and Nitrate plus Nitrite-Nitrogen (NO₂+NO₃-N). Monitoring for these nutrient-related parameters is imposed so that sufficient information will be available regarding the nutrient contribution from this point source, should it be necessary at some later time to impose nutrient limits on this discharge.

The Total Residual Chlorine (TRC) limits are based on calculations to ensure that acute and chronic toxic concentrations of TRC in the receiving stream are not exceeded. Daily maximum and monthly average TRC limitations of 0.025 mg/L and 0.015 mg/L, respectively, are being imposed at Outfall 0011. The monitoring frequency will be three times per week. Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "*9" or "NODI=9"(if hard copy) on the monthly DMR. A measurement of TRC below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as NODI=B or *B on the monthly DMRs.

Because this facility is a major municipal discharger treating municipal and industrial wastewater, chronic toxicity testing with two species (Ceriodaphnia and Pimephales) is being imposed on this permit. Toxicity testing is imposed for both survival and life-cycle impairment (i.e., growth and reproduction). Chronic toxicity at the IWC of 75 percent is required once per year during the month of November. Should the results show chronic toxicity, the permittee would have to conduct follow-up testing as described in Part IV.B of the permit.

ADEM completed a Reasonable Potential Analysis (RPA) of the data submitted in Part D of the Permittee's application (Per 40 CFR Part 122 Appendix J – Table 2), the facility's DMR data, and background data of the stream. The RPA indicates that the discharge may have a reasonable potential to contribute to copper, nickel, and zinc excursions of Alabama's in-stream water quality standards. Total Recoverable Copper monitoring will be included in the permit with a daily maximum limitation of 0.018 mg/l and a monthly average limitation of 0.014 mg/l. The monitoring frequency will be once per month.

Total Recoverable Nickel will be included in the permit with a daily maximum limitation of 0.537 mg/l and a monthly average limitation of 0.063 mg/l. The monitoring frequency will be monthly. Total Recoverable Zinc will be in the permit with a monthly average and daily maximum limitation of 0.220 mg/l. The monitoring frequency will be monthly.

The receiving stream is Walnut Creek, a Tier I waterbody. Walnut Creek is on the current 303(d) list for impaired waterbodies for pathogens. The <u>E. coli</u> limitations imposed for this permit are consistent with water quality criteria and are considered protective of the receiving stream. There are no approved TMDLs for this waterbody.

ADEM Administrative Rule 335-6-10-.12 requires applicants to new or expanded discharges to Tier II waters demonstrate that the proposed discharge is necessary for important economic or social development in the area in which the waters are located. The application submitted by the facility is not for a new or expanded discharge to a Tier II waterbody, so the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

Annual stormwater monitoring for outfalls 002S and 003S will be required for Flow, pH, TSS, NH₃-N, CBOD₅, TKN, NO₃-NO2-N, TP, Oil and Grease, and E. Coli. The previous permit required the facility to monitor TRC and DO. These are being removed from the current permit because these are not pollutants of concern in stormwater. The removal of the reporting requirement for TRC and DO is not considered backsliding because the revision is consistent with the Department's antidegradation policy and water quality standards are being attained.

Prepared by:

Sandra Lee

TOXICITY AND DISINFECTION RATIONALE

Facility Name: Walnut Creek WWTP NPDES Permit Number: AL0054631 Receiving Stream: Walnut Creek Facility Design Flow (Qw): 2.250 MGD Receiving Stream 70₁₀: 1.170 cfs Receiving Stream 1Q10: 0.878 cfs (Estimated at 0.75 * 7Q10) Winter Headwater Flow (WHF): 2.89 cfs Summer Temperature for CCC: 30 deg. Celsius Winter Temperature for CCC: 30 deg. Celsius Headwater Background NH3-N Level: 0.11 mg/l7.0 s.u. Receiving Stream pH: Headwater Background FC Level (summer): N./A. (Only applicable for facilities with diffusers.) N./A. (winter):

The Stream Dilution Ration (SDR) is calculated using the 7Q10 for all stream classifications.

Stream Dilution Ration (SDR) =
$$\frac{Qw}{7Q10 + Qw}$$
 = 74.85%

AMMONIA TOXICITY LIMITATIONS

Toxicity-based ammonia limits are calculated in accordance with the *Ammonia Toxicity Protocol* and the *General Guidance for Writing Water Quality Based Toxicity Permits*.

If the Limiting Dilution is less than 1%, the waterbody is considered stream-dominated and the CMC applies. If the Limiting Dilution is greater than 1%, the waterbody is considered effluent-dominated and the CCC applies.

Limiting Dilution =
$$\frac{Q_{w}}{7Q_{10} + Q_{w}}$$

= $\frac{74.85\%}{7Q_{10} + Q_{w}}$

Effluent-Dominated, CCC Applies

Criterion Maximum Concentration (CMC): $CMC = 0.411/(1+10^{(7.204-pH)}) + 58.4/(1+10^{(pH-7.204)})$

Criterion Continuous Concentration (CCC): $CCC = [0.0577/(1+10^{(7.688-pH)}) + 2.487/(1+10^{(pH-7.688)})] * Min[2.85,1.45*10^{(0.028*(25-T))}]$

Allowable Summer Instream NH₃-N: $\frac{CMC}{36.09 \text{ mg/l}}$ $\frac{CCC}{2.18 \text{ mg/l}}$

Allowable Winter Instream NH₃-N: $\frac{36.09 \text{ mg/l}}{36.09 \text{ mg/l}}$ $\frac{2.18 \text{ mg/l}}{2.18 \text{ mg/l}}$

Summer NH₃-N Toxicity Limit = $\frac{[(Allowable \text{ Instream NH}_{3}-N) * (7Q_{10} + Q_{w})] - [(Headwater NH_{3}-N) * (7Q_{10})]}{(CCC)}$

Winter NH₃-N Toxicity Limit =
$$\frac{[(Allowable Instream NH3-N) * (WHF + Qw)] - [(Headwater NH3-N) * (WHF)]}{Q_w}$$
= N./A.

The ammonia limits established in the permit will be the lesser of the DO-based ammonia limit (from the wasteload allocation model) or the toxicity limits calculated above.

	DO-based NH3-N limit	Toxicity-based NH3-N limit	
Summer	2.00 mg/l NH3-N	2.00 mg/l NH3-N	(rounded)
Winter	N./A.	N./A.	

Summer: The DO/toxicity-based limit of 2.00 mg/l NH3-N applies. Winter limits are not applicable.

TOXICITY TESTING REQUIREMENTS (REFERENCE: MUNICIPAL BRANCH TOXICITY PERMITTING STRATEGY)

The following factors trigger toxicity testing requirements:

- 1. Facility design flow is equal to or greater than 1.0 MGD (major facility).
- 2. There are significant industrial contributors (SID permits).

Acute toxicity testing is specified for A&I receiving streams, or for stream dilution ratios of 1% or less.

Chronic toxicity testing is specified for all other situations requiring toxicity testing.

Chronic toxicity testing is required

74.85%

Note: This number will be rounded up for toxicity testing purposes.

DISINFECTION REQUIREMENTS

Bacteria limits are required, and will be the water quality limit for the receiving stream, except where diffusers are used the limit may be adjusted for the dilution provided by the diffuser.

See the attached Disinfection Guidance for applicable stream standards.

(Non-coastal limits apply)

Applicable Stream Classification: Fish & Wildlife

Disinfection Type: Chlorination

Limit calculation method: Limits based on meeting stream standards at the point of discharge.

	Stream Standard	Effluent Limit
	(colonies/100ml)	(colonies/100ml)
E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)		
Monthly limit as monthly average (November through April):	548	548
Monthly limit as monthly aveage (May through October):	126	126
Daily Max (November through April):	2507	2507
Daily Max (May through October):	298	298
Enterococci (applies to Coastal)		
Monthly limit as geometric mean (October through May):	Not applicable	Not applicable
Monthly limit as geometric mean (June through September):	Not applicable	Not applicable
Daily Max (October through May):	Not applicable	Not applicable
Daily Max (June through September):	Not applicable	Not applicable

MAXIMUM ALLOWABLE CHLORINATION LIMITS

Toxicity-based chlorine limits are calculated in accordance with the General Guidance for Writing Water Quality Based Toxicity Permits.

Chlorine has been shown to be acutely toxic at 0.019 mg/l and chronically toxic at 0.011 mg/l.

Maximum allowable TRC in effluent:

0.015 mg/l (chronic)

(0.011)/(SDR)

Maximum allowable TRC in effluent:

0.025 mg/l (acute)

(0.019)/(SDR)

NOTE: A maximum chlorine limit will be imposed such that the instream concentration will not exceed acutely toxic concentrations in A & I streams and chronically toxic concentrations in all other streams, but may not exceed 1.0 mg/l.

Prepared By:

Sandra Lee

Date:

3/26/2020

F	$Q_d*C_d+Q_{d2}*$	C ₁₂ + () _* *C	= 0,*C		k .		Enter Max Daily	Enter Avg	
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15		YES	VOC	0	0'	0	0 6	0	0	
21	Benzene* Bromoform*	YES	VOC	0	0	0	0	o o	0 .	
23	Carbon Tetrachloride*	YES	VOC	0	, O	0	0	0	. 0	
25 26	Clorobenzene Chlorodibromo-Methane*	YES	VOC	0	Q:	0	0	0	0	
27 28	Chloroethane 2-Chloro-Ethylvinyl Ether	.,	VOC	0	, 0 n	0 _	0	0	0	
	ChloroForm* 4,4'-DDD	YES YES	VOC	0	, 0	0	0	2.4 0	0.8	
31	4,4'-DDE 4.4'-DDT	YES	VOC	0	0	0	0	0	0	
	Dichlorobromo-Methane®	YES	VOC	. 0	0	o o	o .	0	0	
35	1, 2-Dichloroethane* Trans-1, 2-Dichloro-Ethylene	YES	VOC VOC	0	0	0	0	0	0	
37 38	1, 1-Dichloroethylene* 1, 2-Dichloropropane	" YES `	VOC	0 .	0	0	0	0 0	0	
	1, 3-Dichloro-Propylene Dieldrin	YES	VOC	. 0	. 0	0	0	. 0	0	
41	Ethylbenzene Methyl Bromide	, .	VOC	. 0	0	0_	0	0	0	
43	Methyl Chloride Methylene Chloride*	YES	VOC	0	0 1	0	0') 0' '	0	0	
45 46	1, 1, 2, 2-Tetrachloro-Ethane*	YES	VOC	. 0	, 0	0	0	0	. 0	
47 48	Toluene Toxaphene	YES	VOC	0	0	. 0	0	. 0	0	
49 50	Tributyltine (TBT) 1, 1, 1-Trichloroethane	YES	VOC	0	. 0	0	0	0	. 0	
51	1, 1, 2-Trichloroethane* Trichlorethylene*	YES	VOC	. 0	0	0	0	0	. 0	
53 54	Vinyl Chloride* P-Chloro-M-Cresol	YES	VOC	0	0 1	0	0	0	0	: :-:.
	2-Chlorophenol 2, 4-Dichlorophenol		Acids Acids	, D	0.	0	0	0	0	
57	2, 4-Dimethylphenol 4, 6-Dinitro-O-Cresol		Acids Acids	0 1	0	0	0	0	0	:
59 60	2, 4-Dinitrophenol 4,6-Dintro-2-methylophenol	YES	Acids Acids	. 0	`. o	0	0	0	0 .	-:
	Dioxin (2,3,7,8-TCDD) 2-Nitrophenol	YES	Acids	0	, ,	0	0	0	0	· . · ·
63	4-Nitrophenol Pentachlorophenol*	YES	Acids Acids	ŏ *	0	0	0	0	. 0	
65 66	Phenol 2, 4, 6-Trichlorophenol*	YES	Acids Acids	0	0	0	0	. 0	0	. :
67	Acenaphthene Acenaphthylene	163	Bases Bases	0	0	0	0	O.	0	
69 70	Anthracene Benzidine		Bases Bases	0 -	ŏ	0	0	0	0	
71 72	Benzo(A)Anthracene* Benzo(A)Pyrene*	YES YES	Bases Bases	0	ŏ	o o	0	0	0	
73	3, 4 Benzo-Fluoranthene Benzo(GHI)Perylene	125,	Bases Bases	0	ŏ,	0	0	0	0	
75	Benzo(K)Ruoranthene Bis (2-Chloroethoxy) Methane		Bases Bases	, O	. 0 "	0	0	0	0	
77	Bis (2-Chloroethyl)-Ether* Bis (2-Chloroiso-Propyl) Ether	YES	Bases Bases	0	. 0	0	0	0	0	
	Bis (2-Ethylhexyl) Phthalate* 4-Bromopheavl Phenyl Ether	YES	Bases Bases	0 ;	0	0	0	0	0	
	Butyl Benzyl Phthalate 2-Chloronaphthalene		Bases Bases	e 0	0 .	0.1	THE DIRECT	0	0 .	
83 84	4-Chlorophenyl Phenyl Ether Chrysene*	YES	Bases Bases	0	0	0,,,,,,,,,,,	0 1 0 0	0	0	
85	Di-N-Butyl Phthalate Di-N-Octyl Phthalate		Bases Bases	0 1	· 0 ·	0	0	0	0	
87 88	Dibenzo(A,H)Anthracene* 1, 2-Dichlorobenzene	YES	Bases Bases	. 0	0	0	0 0 0	0	0	
90	1, 3-Dichlorobenzene 1, 4-Dichlorobenzene		Bases Bases	0	0	0	0	0	0	
91 92	3, 3-Dichlorobenzidine* Diethyl Phthalate	YES	Bases Bases	0	, O O	0 0	0 0	0	0	
	Dimethyl Phthalate 2, 4-Dinitrotoluene*	YES	Bases Bases	" . O	0	0	0	0	0	
96	2, 6-Dinitrotoluene 1,2-Diphenylhydrazine		Bases Bases	0 1 0-	0:,	0	a) 0	0	0	
98	Endosulfan (alpha) Endosulfan (beta)	YES YES	Bases Bases	0	. 0	0	0	0	0	: :-:
100	Endosulfan sulfate Endrin	YES	Bases Bases	. O .	0	0	0	0	. 0	
102	Endrin Aldeyhide Auoranthene	YES	Bases Bases	0	0	0	0	0	0	
104	Fluorene Heptochior	YES	Bases Bases	0	0	0	o o	0	0	
106	Heptachlor Epoxide Hexachlorobenzene*	YES YES	Bases Bases	.0	0 ,	0 0	0	0	0	
108	Hexachlorobutadiene* Hexachlorocyclohexan (alpa)	YES YES	Bases Bases	0	0	0	0	0	0	
109 110	Hexachlorocyclohexan (beta) Hexachlorocyclohexan (gamma)	YES YES	Bases Bases	0	0	0 0	0	0	0	-
111 112	HexachlorocycloPentadiene Hexachloroethane		Bases Bases	0	0	(7	0	0	0	:
	Indeno(1, 2, 3-CK)Pyrene* Isophorone	YES ,	Bases Bases	0	. 0	0	0 D	o o	0	:
115	Naphthalene Nitrobenzene		Bases Bases	0 .	, ö.	0	0	0	0	
117	N-Nitrosodi-N-Propylamine* N-Nitrosodi-N-Methylamine*	YES YES	Bases Bases	0 ,	o o	0	0	0	0	
119	N-Nitrosodi-N-Phenylamine* PCB-1016	YES	Bases Bases	0	0	0	0	0	0	
121	PCB-1221 PCB-1222	YES YES	Bases Bases	" D	0	0	0	0	0	
123	PCB-1232 PCB-1242 PCB-1248	YES	Bases Bases	0 1	0	. 10 0 10 0	0	a	0	
125	PCB-1254 PCB-1260	YES YES	Bases Bases	0	0	0	186. 6 PT PT	0	0	. • . "
	Phenanthrene	, 6	Bases	0	ö	á	0.0	0	0	, :

2.25	Enter Q _d = wastowater discharge flow from facility (MGD)
3.48126525	Q _e = wastowater discharge flow (cfs) (this value is caluclated from the MGD)
0 ,	Enter flow from upstream discharge Qd2 = background stream flow in MGD above point of discharge
0	Qd2 = background stream flow from upstream source (cfs)
1.17	Enter 7Q10, Q, = background stream flow in cfs above point of discharge
0.8775	Enter or estimated, 1Q10, Q, = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
40.74	Enter Mean Annual Flow, Q ₄ = background stream flow in cfs above point of discharge
2.89	Enter 7Q2, Q ₄ = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to	Enter C. = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q ₄ +Qd2+Q ₅	Q, = rosultant in-stream flow, after discharge
Calculated on other	C _r = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
40.2	Enter, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	Enter, Background pH above point of discharge
YES	Enter, is discharge to a stream? "YES" Other option would be be a Lake. (This changes the partition coefficients for the metals)

^{**} Using Partition Coefficients

March 2, 2020

Facility Name:	Clanton Walnut Creek WWTP

D Pollufant RP7 Carringem from updrawn Applicant Casully Carringem from updrawn	Human Health Continumption Fish only (usp) Carcingonic Q
Darkstone Postularit Post	Discharge 5s populate 5s Permit 20% of Druit RP7 Water Quality Druit Permit 20% of Druit RP7 Water Quality Druit Permit 20% of Druit RP7 Criteria (C) Umit (C _{m-s}) Permit Limit RP7 Umit (C _{m-s}) Permit Limit Permit (C _{m-s}) Permit (C _{m-s}) Permit Limit (C _{m-s}) Permit (C _{m-s}) Permit (C _{m-s}) Permit
D	potercam Applicam County
Artinory	0 02 3.73E402 4.99E+02 9.96E+01 7.70E-01 0 0 2201.324 349.151 69.830 No 3.03E-01 3.85E+00 7.70E-01 1
2 Arsenic YES 0 0 0 592.334 741.540 148.328 No 8 8eryfittin 0 0 0 3.518 4.401 0.680 No 6 Cademium Chromium III 0 0 0.8 17289.283 1510.508 322.102 No 6 Chromium Chromium VI 0 0 0.8 17289.2832 1510.508 322.102 No 6 Chromium Chromium VI 0 0 0.8 1600.0 20.033 4.007 No	0 0 201,324 349,151 69,830 No 3,03E-01 3,85E+00 7,70E-01 0
4 Cadmium 0 0 0 3.5555_3 4.401 0.880 No 0.85	0 0 0553 0739 0148 No
	0 0.2 167.319 223.552 44.710 No
	0 0.2 31.000 14.697 2.939 No 7.16 110.586 14.155 2.631 Yes 0.4 477 5.925 1.195 No
9 Mercury 0 0.001969 2,400 3.005 0.601 No 10 Nickel 20 0.001969 2,400 3.005 0.601 No	0 0.4 4.772 5.975 1.195 No 0.000385 0.0012 0.016 0.003 No 4.24E-02 5.67E-02 1.13E-02 0 33.36 247.637, 63.647 12.729 Yes 9.83E-02 1.33E-03 2.65E-02 7
11 Selenium 0 0 25.041 5.008 No	0 0 5,000 6,680 1,336 No 2,43E+03 3,25E+03 6,49E+02 1
13 Thallium 14 Zinc YES 0 116	0 0 - 274E-01 3.66E-01 7.31E-02 0 43.6 165.402 220.991 44.198 No 1.49E+04 1.99E+04 3.98E+03 0
16 Total Phenotic Compounds 0 0 (0 0 5.200 6.948 1.390 No 5.23E503 1.25E+04 2.49E+03 N
18 Acrolein 0 0	0 81000
20 Aldrin YES 0 0 3,000 3,756 0,751 No	0 0 - 294EOS 373E04 7.47EOS 0 0 3,50E+01 1.97E+02 3.93E+01 2
23 Carbon Tetrachforlide YES 0 0 (0 0
25 Clorobenzene 0 0	0 0 0.0043 0.006 0.001 No 4.73E-03 6.01E-03 1.20E-03 0 0 - 9.06E+02 1.21E+03 2.42E+02 0
27 Chloroethane 0 0 -	0 0 9.41E-01 1.88E-01 1
29 ChloroForm YES 0 2.4	0 0.8
31 4.4 - DDE YES 0 0	0 0 - 1.28E-04 1.63E-03 3.25E-04 0 0 0.001 0.001 0.000 No 1.28E-04 1.63E-03 3.25E-04
33 Dichlorobromo-Methane YES 0 0	0 0 1,00E+01 1,27E+02 2,55E+01 1
36 Trans-1, 2-Dichloro-Ethyleno 0 0	0 0
38 1, 2-Dichloropropane 0 0 (0 0
40 Diekkrin YES 0 0 0 0240 0.300 0.060 No 0 1 Eltytoperagne	0 0 0.055 0.075 0.015 No 3.12E-05 3.97E-04 7.93E-05 0 0 - 1.24E-03 1.66E+03 3.33E+02 0
42 Methyl Bromide 0 0 (43 Methyl Chloride 0 0 (0 0
45 1, 1, 2, 2-Tetrachlore-Ethane YES 0 0	0 0 3,46E-02 4,39E-03 8,78E-02 0 0 2,30E-00 2,96E-01 5,59E-00 0 0 1,102E-00 2,24E+01 4,37E-00 0
47 Toluene 0 0	0 0 0 0.0002 0.000 0.000 No 7.525204 2.056-03 4.116-04 1
49] Tributyttin (TBT) YES 0 0 0.576 0.115 No 0 501, 1, 1-Trichloroethane 0 0	0 0 0.0072 0.096 0.019 No -
52 Trichlorethylene YES 0 0	0 0 1,75E+01 1 2 22E+02 4.44E+01 1
54 P-Chloro-M-Cresol 0 0	0 0 1.62E+00 1.81E+01 3.62E+00 0 0 0 1.81E+01 1.65E+02 2.33E+01 0
56 2, 4-Dichlorophenol 0 0	0 0
58 4, 6-Dinitro-O-Cresol 0 0 (0 0 - 3.116+03 4.166+03 8.316+02
61 Dioxin (2,3,7,8-TCDD) YES 0 0	0 0
63 4-Nitrophenol 0 0 (0 0 0 6.893 8.942 1.788 No 1.77E100 2.25E+01 4.49E+00 P
65 Phenol 0 0 0	0 0 5.00E-05 6.69E-05 1.34E+05 0 0 0 1.41E+00 1.80E+01 3.59E+00 0
68 Acenaphthylene 0 0	0 0
70 Benzidine 0 0 (0 0 2.33E+04 3.12E+04 6.24E+03 1 0 0 1.16E-04 1.55E-04 3.10E-05 1
72 Benzo(A)Pyrena YES 0 0 1 (73) Benzo(b)Busranthene 0 0 0 1 (73) Benzo(b)Busranthene	0 0
74 Berzo(GHI)Perylene 0 0 (0 0 1.07E-02 1.42E-02 2.65E-03
76 Bis (2-Chloroethoxy) Methane	0 0 0 7.81E-01 3.91E-00 7.81E-01 1
79 Bis (2-Ethylhexyl) Phthalate YES 0 0 - (0 0 3.78E+04 5.05E+04 1.01E+04 N
81 Butyt Benzyt Phthalate 0 0 0	0 0
83 4-Chlorophenyl Phenyl Ether 0 0 (0 0 0 1.076-02 1,35E-01 2,71E-02 N
86 Di-N-Octyl Phthalato 0 0 (0 0 3.50E+03 7.01E+02 h
88 1, 2-Dichlorobenzene 0 0 - (0 0 - 1075272 1.356-01 2.716-02 N 0 0 - 1756-02 1.016-03 2.026-02 N 0 0 - 5625-02 7.516-02 1.06-02 N
90 1, 4-Dichloroberuzene 0 0	0 0
92 Diedhyl Prichalato 0 0 (93 Dimethyl Phihalato 0 0 (0 0 256E04 3.42E+04 6.83E+03 N 0 0 6.8EE05 8.66E+05 1.73E+05 N
95 2, 6-Dinitrotolueno 0 0 - (0 0 5.03E+00 N 5.03E+00 N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
97 Endosulfan (alpha) YES 0 0 0.275 0.065 No 0	0 0 1.0066 1 0.075 0.015 No 5.196-01 6.596-02 1.326-02 No 0 0.006 1 0.075 0.015 No 5.196-01 6.596-02 1.326-02 No 0.006 1 0.006
99 Endosulfan sulfate YES 0 0 0 0.086 0.108 0.022 No 0	0 0 5.19E-01 6.59E+02 1.32E+02 N 0 0 0.036 0.048 0.010 No 3.53E-02 4.48E-01 8.96E-02 N
101 Endrin Aldoyhdo	0 0
103 Floorene	0 0 0.0028 0.005 0.001 No 4.63505 5.88E-04 1.8E-02 N 0 0 0.0058 0.005 0.001 No 2.25E-05 2.91E-04 5.8E-05 No
106 Hexachlorobenzene YES 0 0	0 0 0.0036 0.005 0.001 No 2262.05 2.91E-04 5.82E-05 N 0 1.66E-04 2.13E-03 4.26E-04 No 0 1.66E-04 1.37E-02 2.73E-01 No 0
108 Hezachlorocycloheran (alpha) YES 0 0	0 0 285E-03 3.62E-02 7.24E-03 N 0 0 9.97E-03 1.27E-01 2.53E-02 N
110 Hexachlorocyclohoxan (gamma) YES	0 0
113 Indeno(1, 2, 3-CK)Pyrene YES 0 0 (0 0 - 152E-00 2.56E+00 5.12E-01 N 0 0 - 1.07E-02 1.35E-01 2.71E-02 N
115 Naphthalene 0 0 0	0 0
117 N-Nitrosodi-N-Propytamine YES 0 0	0 0
119 N-Nitrosodiphenylamine YES 0 0 0 0 120 PCB-1016 YES 0 0 0 0	0 0
121 PCB-1221 YES 0 0 (0 122 PCB-1232 YES 0 0 (0 123 PCB-1232 YES 0 0 - (0 123 PCB-1232 YES 0 0)	0 0.014 0.019 0.004 No 3.745.00 4.755-04 9.505-05 N
124 PCB-1248 YES 0 0	0 0 0.014 0.019 0.004 No 3.74E-05 4.75E-04 9.50E-05 No 0 0.0014 0.019 0.004 No 3.74E-05 4.75E-04 9.50E-05 No 0.004 No 0.74E-05 No 0.004 No 0.004 No 0.74E-05 No 0.004 No 0.004 No 0.004 No 0.74E-05 No 0.004 No 0.
126 PCB-1260 YES 0 0	0 0 0.0014 0.019 0.004 No 3.74E.05 0 4.75E.04 9.50E.05 N
128 Pyrene 0 0 (0 0 233E+03 3,12E+03 6.24E+02 N 0 0 4.00E+01 5.47E+01 1.00E+01 N

Total Recoverable Copper DMR Data

Monitor Pd End Date	Monthly Average (mg/l)	Daily Maximum (mg/l)
3/31/2015	0.005	0.005
4/30/2015	0.005	0.005
5/31/2015	0.005	0.005
6/30/2015	0.005	0.005
7/31/2015	0.005	0.005
8/31/2015	0.005	0.005
9/30/2015	0.005	0.005
10/31/2015	0.005	0.005
11/30/2015	0.005	0.005
12/31/2015	0.005	0.005
1/31/2016	0.005	0.005
2/29/2016	0.001	0.001
3/31/2016	0.00254	0.00254
4/30/2016	0.00227	0.00227
5/31/2016	0.00222	0.00222
6/30/2016	0.00232	0.00232
7/31/2016	0.0266	0.0266
8/31/2016	0.0207	0.0207
9/30/2016	0.0114	0.0114
10/31/2016	0.00301	0.00301
11/30/2016	0.0109	0.0109
12/31/2016	0.0216	0.0262
1/31/2017	0.0125	0.015
2/28/2017	0.011	0.02
3/31/2017	0.019	0.012
4/30/2017	0.004	0.004
5/31/2017	0.01	0.016
6/30/2017	0.012	0.015
7/31/2017	0.005	0.005
8/31/2017	0.008	0.008
9/30/2017	0.011	0.011
10/31/2017	0.034	0.034
11/30/2017	0.01	0.01
12/31/2017	0.01	0.01
1/31/2018	0.006	0.006
2/28/2018	0.01	0.01
3/31/2018	0.01	0.01

Monitor Pd End Date	Monthly Average (mg/l)	Daily Maximum (mg/l)
4/30/2018	0.01	0.01
5/31/2018	0.008	0.008
6/30/2018	0.006	0.006
7/31/2018	0.002	0.002
8/31/2018	0.008	0.008
9/30/2018	0.011	0.011
10/31/2018	0.006	0.006
11/30/2018	0.007	0.007
12/31/2018	0.005	0.005
1/31/2019	0.004	0.004
2/28/2019	0.01	0.01
3/31/2019	0.006	0.006
4/30/2019	0.01	0.01
5/31/2019	0.0032	0.0032
6/30/2019	0	0
7/31/2019	0	0
8/31/2019	0	0
9/30/2019	0.0073	0.0073
10/31/2019	0	0
11/30/2019	0	0
12/31/2019	0.0032	0.0032
1/31/2020	0	0
Application	0.0032	0.0032
Application	0.0021	0.0021
Application	0	0
	Monthly Average 0.007	16 Maximum 0.034

Total Recoverable Mercury DMR Data

	Monthly Average	0.000885	Maximum	0.001969
Application	0.00051			
Application	0.00053			
Application	0.00126		0.00126	
6/30/2016	0.001969		0.001969	
3/31/2016	0.00152		0.00152	
9/30/2015	0.000685		0.000685	
6/30/2015	1.38E-06		1.7E-06	
3/31/2015	0.000555		0.000895	
12/31/2015	0.000935		0.000935	
Monitor Pd End Date	Monthly Average (ug/L)		Daily Maximum (ug/I	

Total Recoverable Nickel DMR Data

Monitor Pd End Date	Monthly Average (mg/L)	Daily Maximum (mg/L)
3/31/2015	0.02	0.02
4/30/2015	0.026	0.026
5/31/2015	0.02	0.02
6/30/2015	0.0216	0.0216
7/31/2015	0.0329	0.0329
8/31/2015	0.0493	0.0493
9/30/2015	0.0318	0.0318
10/31/2015	0.0291	0.0291
11/30/2015	0.0239	0.0239
12/31/2015	0.02	0.02
1/31/2016	0.02	0.02
2/29/2016	0.02	0.02
3/31/2016	0.02	0.02
4/30/2016	0.02	0.02
5/31/2016	0.02	0.02
6/30/2016	0.0208	0.0208
7/31/2016	0.0224	0.0224
8/31/2016	0.025	0.025
9/30/2016	0.02	0.02
10/31/2016	0.0215	0.0215
11/30/2016	0.02	0.02
12/31/2016	0.047	0.047
1/31/2017	0.05	0.05
2/28/2017	0.05	0.05
3/31/2017	0.05	0.05
4/30/2017	0.05	0.05
5/31/2017	0.05	0.05
6/30/2017	0.05	0.05
7/31/2017	0.05	0.05
8/31/2017	0.05	0.05
9/30/2017	0.05	0.05
10/31/2017	0.057	0.057
11/30/2017	0.05	0.05
12/31/2017	0.05	0.05
1/31/2018	0.05	0.05
2/28/2018	0.05	0.05
3/31/2018	0.05	0.05

Monitor Pd End Date	Monthly Average (r	ng/L)	Daily Maximur	n (mg/L)
4/30/2018	0.0705		0.089	
5/31/2018	0.058		0.058	
6/30/2018	0.029		0.029	
7/31/2018	0.059		0.068	
8/31/2018	0.04		0.04	
9/30/2018	0.082		0.091	
10/31/2018	0.059		0.084	
11/30/2018	0.036		0.036	
12/31/2018	0.02		0.02	
1/31/2019	0.03		0.03	
2/28/2019	0.024		0.024	
3/31/2019	0.02		0.02	
4/30/2019	0.021		0.021	
5/31/2019	0.029		0.029	
6/30/2019	0.026		0.026	
7/31/2019	0.045		0.045	
8/31/2019	0.032		0.032	
9/30/2019	0.039		0.039	
10/31/2019	0.020		0.020	
11/30/2019	0.012		0.012	
12/31/2019	0.0091		0.0091	
1/31/2020	0.0058		0.0058	
Application	0.0639		0.0639	
Application	0.0260		0.0260	
Application	0.0280		0.0280	
	Monthly Average	0.03536	Maximum	0.091

Total Recoverable Zinc DMR Data

Monitor Pd End Date	Monthly Average (mg/L)	Daily Maximum (mg/L)
3/31/2015	*E	*E
4/30/2015	0.02	0.02
5/31/2015	0.02	0.02
6/30/2015	0.0137	0.0137
7/31/2015	0.02	0.02
8/31/2015	0.0293	0.0293
9/30/2015	0.02	0.02
10/31/2015	0.036	0.036
11/30/2015	0.0426	0.0426
12/31/2015	0.02	0.02
1/31/2016	0.0207	0.0207
2/29/2016	0.115	0.115
3/31/2016	0.0286	0.0286
4/30/2016	0.0439	0.0439
5/31/2016	0.029	0.029
6/30/2016	0.0386	0.0386
7/31/2016	0.0542	0.0542
8/31/2016	0.0973	0.0973
9/30/2016	0.0472	0.0472
10/31/2016	0.0502	0.0502
11/30/2016	0.0347	0.0347
12/31/2016	0.116	0.116
1/31/2017	0.05	0.05
2/28/2017	0.05	0.05
3/31/2017	0.069	0.069
4/30/2017	0.05	0.05
5/31/2017	0.0535	0.057
6/30/2017	0.05	0.05
7/31/2017	0.05	0.05
8/31/2017	0.05	0.05
9/30/2017	0.05	0.05
10/31/2017	0.05	0.05
11/30/2017	0.05	0.05
12/31/2017	0.05	0.05
1/31/2018	0.05	0.05
2/28/2018	0.05	0.05
3/31/2018	0.05	0.05

Monitor Pd End Date	Monthly Average (mg,	/L)	Daily Maximu	m (mg/L)		
4/30/2018	0.05		0.05	ı		
5/31/2018	0.05		0.05			
6/30/2018	0.05		0.05			
7/31/2018	0.05		0.05			
8/31/2018	0.05	0.05	·····			
9/30/2018	0.05		0.05			
10/31/2018	0.05		0.05			
11/30/2018	0.05		0.05			
12/31/2018	0.05		0.05			
1/31/2019	0.05	,	0.05			
2/28/2019	0.05		0.05			
3/31/2019	0.05		0.05			
4/30/2019	0.05		0.05			
5/31/2019	0.048	:	0.048			
6/30/2019	0.045	- '	0.045			
7/31/2019	0.037		0.037			
8/31/2019	0.032		0.032			
9/30/2019	0		0			
10/31/2019	0.039		0.039			
11/30/2019	0.017		0.017			
12/31/2019	0.019		0.019			
1/31/2020	0.039		0.039			
Application	0.0208		0.0310			
Application	0.0132					
Application	0.0310					
	Monthly Average 0.	0436	Maximum	0.116		

^{*}E – Analysis not conducted

Waste Load Allocation Summary Request Number: 1787 REQUEST INFORMATION From: In Branch/Section **FUND Code Date Submitted** Date Required Date Permit application received by NPDES program Receiving Waterbody Walnut Creek **Previous Stream Name Facility Name** Clanton Walnut Creek WWTP (Name of Discharger-WQ will use to file) Previous Discharger Name **Outfall Latitude** (decimal degrees) 32.868324 River Basin Coosa Outfall Longitude -86.597488 (decimal degrees) *County Chilton Permit Number AL0054631 Permit Type CONVERSION **Permit Status** Active **MUNICIPAL** Type of Discharger Do other discharges exist that may impact the model? ✓ No. ☐ Yes If yes, impacting **Impacting** dischargers dischargers permit names. numbers. Existing Discharge Design Flow 2.25 MGD Note: The flow rates given should be those requested for modeling. Proposed Discharge Design Flow MGD Comments included Information Year File Was Created REC 2001 Verified By Yes ✓ No Response ID Number 1388 Lat/Long Method **GPS** 12 Digit HUC Code 031501070802 F&W Use Classification Site Visit Completed? Yes No 10/2/2013 Date of Site Visit П **Date of WLA Response** 10/9/2013 Waterbody Impaired? Yes **V** No Approved TMDL? Yes ✓ No Antidegradation Yes No Waterbody Tier Level Tier I 3 Approval Date of TMDL **Use Support Category Waste Load Allocation Information** 13.5 Miles **Date of Allocation** 10/9/2013 Modeled Reach Length **Allocation Type** Name of Model Used **SWQM** Annual Type of Model Used Desk-top Model Completed by Ross Caton Water Quality Branch Allocation Developed by

Page 1

Waste Load Allocation Summary Page 2 Conventional Parameters Other Parameters MGD MGD MGD Qw MGD Qw Qw Qw **Annual Effluent** Limits Season Season Season Season From From From MGD Qw 2.25 From Through Through Through Through CBOD5 10 mg/L TP mg/L mg/L CBOD5 CBOD5 TP mg/L NH3-N 2 mg/L TN mg/L NH3-N mg/L NH3-N TN mg/L TKN mg/L TSS mg/L TKN TSS mg/L mg/L *TKN mg/L D.O. 6 mg/L mg/L mg/L D.O. D.O. mg/L mg/L "Monitor Only" Parameters for Effluent: **Parameter** Frequency **Parameter** Frequency TP Monthly(Apr-Oct) NO2+NO3-N Monthly(Apr-Oct) TKN Monthly(Apr-Oct) Water Quality Characteristics Immediately Upstream of Discharge Summer Winter **Parameter** 2 mg/l **CBODu** mg/l 0.11 mg/l mg/l NH3-N 30 Temperature °C °C su su pН Hydrology at Discharge Location 29.1 Method Used to Calculate **Drainage Area** sq mi **Drainage Area** Qualifier ADEM Estimate w/USGS Gage Data Stream 7Q10 1.17 cfs Exact Stream 1Q10 cfs ADEM Estimate w/USGS Gage Data 2.89 Stream 7Q2 cfs 40.74 cfs ADEM Estimate w/USGS Gage Data Annual Average

Comments and/or Notations

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III. FACILITY	/ NAME	PLEASE	E PLAC	CE LA	AD / WII	S.SPACE JN BRANCH	information that should appear), plea fill-in area(s) below. If the label is o	se prov complet	vide it in e and o	the proper correct, you
V. FACILITY ADDRESS	MAILING S		٤,			711 010 (11011)	need not complete Items I, III, V, a must be completed regardless). Cor has been provided. Refer to the ins	nplete i	all items	sifnolabel
VI. FACILITY	LOCATION						descriptions and for the legal author data is collected.	rization	s under	which this
II. POLLUTANT	CHARACTERIS	TICS					data is boilected.			
submit this form you answer "no	n and the suppler o" to each question	mental form listed in the pare	nthesi f these	s follo	wing the qu s. You may faced terms	estion. Mark "X" in the box in answer "no" if your activity is e	he EPA. If you answer "yes" to a the third column if the supplement excluded from permit requirement	ital for	m is a	ttached. If in C of the
	SPECIFIC QU	ESTIONS	YES	NO	FORM	SPECIFIC	QUESTIONS	YES	NO	FORM
A. Is this facility results in a d	y a publicly own	ned treatment works which ers of the U.S.? (FORM 2A)	X		ATTACHED	B. Does or will this facility include a concentrated	(either existing or proposed) animal feeding operation or tion facility which results in a		X	ATTACHED
-	·	*	16	17	18	discharge to waters of th		19	20	21
	he U.S. other than	tly results in discharges to n those described in A or B	22	23	. 24		(other than those described in A sult in a discharge to waters of	25	X 26	27
		eat, store, or dispose of					ect at this facility industrial or		<u> </u>	
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C. Do view en util		- E 11th	28 .	. 29	30	underground sources of d		31	32	33
or other flu connection w inject fluids u gas, or inject	ids which are l with conventional oused for enhance	s facility any produced water brought to the surface in oil or natural gas production, ad recovery of oil or natural ge of liquid hydrocarbons?		×		processes such as mining	at this facility fluids for special g of sulfur by the Frasch process, als, in situ combustion of fossil ermal energy? (FORM 4)		×	
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or be located	l in an attainment	area? (FORM 5)	40	41	42		ocated in an attainment area?	43	44	45
III. NAME OF	FACILITY	nung og vin er in hinderna s	····				*	- ب		±.,
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IV. FACILITY O	CONTACT	*				<u> </u>		69	_	
*		A. NAME & TITLE (last	, first,	& title)	τ '	1.	B. PHONE (area code & no.)			
billy	joe drive			Ţ			(205) 755-4051	1 2		
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CONTINUED FROM THE FRONT	
VII. SIC CODES (4-digit, in order of priority) A. FIRST	B. SECOND
A. FIRST	B. SECOND
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15 16 - 19	15 16 - 19
C. THIRD	D. FOURTH
(specify)	(specify)
45 46 10	15 16 - 19
VIII. OPERATOR INFORMATION	13 [10 - 13]
A, NAME	B.Is the name listed in Item
g city of clanton	VIII-A also the owner?
1-1	✓ YES □ NO
15 16	55 66
C. STATUS OF OPERATOR (Enter the appropriate letter into the	e answer box: if "Other," specify.) D. PHONE (area code & no.)
F = FEDERAL	specify) c
M = PUBLIC (other than federal or state) M	A (205) 755-4051
P = PRIVATE U = OTHER (specify)	
56	15 6 - 18 19 - 21 22 - 2
E. STREET OR P.O. BOX	
po box 580	
PO DOX 300	
26	55
F. CITY OR TOWN	G. STATE H. ZIP CODE IX. INDIAN LAND
	Is the facility located on Indian lands?
B clanton	al 35046 □ YES
15 16	40 41 42 47 - 51 52
X. EXISTING ENVIRONMENTAL PERMITS	e y su ga e y e pay e y y that year a gar of the gar a su and a subject to the subject of the su
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XI. MAP Attach to this application a topographic map of the area extending to at least one	e mile beyond property boundaries. The map must show the outline of the facility, the
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FORM 2A

NPDES

NPDES FORM 2A APPLICATION OVERVIEW

AUG 2 9 2019

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

BASIC APPLICATION INFORMATION

PAR	T A. BASIC APPL	ICATION INFOR	RMATION FOR ALL	APPLICANTS:	
All tr	eatment works mus	t complete questio	ns A.1 through A.8 o	f this Basic Application Information pa	cket.
	Facility Information				<u></u>
	Facility name	walnut creek wa	ste water treatment	facility	
	Mailing Address	po box 580 clant	on al 35046		
	Contact person	billy joe driver			
	Title	mayor			
	Telephone number	(205) 755-4051			<u> </u>
	Facility Address	1574 county roa	d 51 clanton al	·	
A.2.	,			bove, provide the following:	
	Applicant name				
	Mailing Address				
	Contact person				. ,
	Title				
	Telephone number				
	Is the applicant the	e owner or operato	r (or both) of the trea	tment works?	
	owner				
	Indicate whether confacility	- 1	ding this permit should applicant	be directed to the facility or the applicant.	
A.3.	Existing Environm	ental Permits. Pro		r of any existing environmental permits tha	at have been issued to the treatment
	works (include state			,	
	NPDES AL05463			OH	
				Others.	
A.4.	Collection System	Information. Provi	ide information on mun	nicipalities and areas served by the facility. Collection system (combined vs. separate) a	. Provide the name and population of
	Name	F	opulation Served	Type of Collection System	Ownership
	clanton AL		3100	seprate	municipal
					
	Total po	ppulation served _			

. In	dian Country.					4000 40		
a.	Is the treatment works locate	ed in Indian C	ountry?					
	Yes	✓ No						
b.	Does the treatment works disthrough) Indian Country?	scharge to a	receiving water that is eithe	er in Indian Country	or that is ups	stream from (and	i eventually	flows
	Yes	_ No						
av	low. Indicate the design flow reverage daily flow rate and maxi eriod with the 12th month of "th	imum daily flo	w rate for each of the last t	hree years. Each	year's data m	ust be based on). Also prova 12-month	vide th
a.	Design flow rate	2.250 mgd	1					
			Two Years Ago	Last Year		This Year		
b.	. Annual average daily flow ra	ite	1.739		1.712		2.030	mgd
C.	. Maximum daily flow rate		2,776		2.491		2.727	mgd
D	ischarges and Other Disposa	al Methods.						
a.	If yes, list how many of each i. Discharges of treated ef	ischarge efflu n of the follow	ing types of discharge poin	ts the treatment wo	orks uses:	Yes yes		No
	Does the treatment works di If yes, list how many of each i. Discharges of treated ef ii. Discharges of untreated	ischarge efflu n of the follow ffluent l or partially tr	ing types of discharge poin	ts the treatment wo	orks uses:		*	No
	Does the treatment works di If yes, list how many of each i. Discharges of treated ef	ischarge efflu n of the follow ffluent I or partially tr ow points	ing types of discharge poin	ts the treatment wo	orks uses:			No
	Does the treatment works di If yes, list how many of each i. Discharges of treated ef ii. Discharges of untreated iii. Combined sewer overflo iv. Constructed emergency v. Other	ischarge efflu n of the follow ffluent I or partially tr ow points v overflows (p	eated effluent rior to the headworks) ent to basins, ponds, or oth	ner surface	orks uses:			No
a.	Does the treatment works di If yes, list how many of each i. Discharges of treated ef ii. Discharges of untreated iii. Combined sewer overflo iv. Constructed emergency v. Other Does the treatment works di	ischarge efflum of the follow filluent or partially trow points overflows (proceedings)	eated effluent rior to the headworks) ent to basins, ponds, or other discharge to waters of the	ner surface	orks uses:	yes		
a.	Does the treatment works di If yes, list how many of each i. Discharges of treated ef ii. Discharges of untreated iii. Combined sewer overflo iv. Constructed emergency v. Other Does the treatment works di impoundments that do not h If yes, provide the following	ischarge efflum of the follow ffluent or partially trow points overflows (prischarge effluence outlets for each surface	eated effluent rior to the headworks) ent to basins, ponds, or other discharge to waters of the ace impoundment:	ner surface e U.S.?	orks uses:	yes	✓ mgd	
a.	Does the treatment works di If yes, list how many of each i. Discharges of treated ef ii. Discharges of untreated iii. Combined sewer overflo iv. Constructed emergency v. Other Does the treatment works di impoundments that do not h If yes, provide the following the coation: Annual average daily volume	ischarge efflum of the follow ffluent or partially trow points overflows (prischarge effluence outlets for each surface	eated effluent rior to the headworks) ent to basins, ponds, or other discharge to waters of the ace impoundment:	ner surface e U.S.?	orks uses:	yes	V mgd	
a.	Does the treatment works di If yes, list how many of each i. Discharges of treated ef ii. Discharges of untreated iii. Combined sewer overflo iv. Constructed emergency v. Other Does the treatment works di impoundments that do not h If yes, provide the following Location: Annual average daily volume Is discharge	ischarge efflum of the follow filluent or partially trow points overflows (prischarge efflum ave outlets for each surface discharged continuous o	eated effluent rior to the headworks) ent to basins, ponds, or other discharge to waters of the ace impoundment: to surface impoundment(s)	ner surface e U.S.?	orks uses:	yes	✓ mgd	
b.	Does the treatment works di If yes, list how many of each i. Discharges of treated ef ii. Discharges of untreated iii. Combined sewer overflo iv. Constructed emergency v. Other Does the treatment works di impoundments that do not h If yes, provide the following Location: Annual average daily volume Is discharge	ischarge efflum of the follow fluent or partially trow points overflows (prischarge effluence outlets for each surface discharged continuous outled and apply treated and apply treated to the form of	eated effluent rior to the headworks) ent to basins, ponds, or other discharge to waters of the ace impoundment: to surface impoundment(s) r intermitten	ner surface e U.S.?	orks uses:	yes	mgd	No

intermittent?

continuous or

d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?

Is land application

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 AL0054631 walnut creek wwtp If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe). If transport is by a party other than the applicant, provide: Transporter name: Mailing Address: Contact person: Title: Telephone number: For each treatment works that receives this discharge, provide the following: Name: Mailing Address:

FACILITY NAME AND PERMIT NUMBER:



Form Approved 1/14/99 OMB Number 2040-0086

WASTEWATER DISCHARGES:

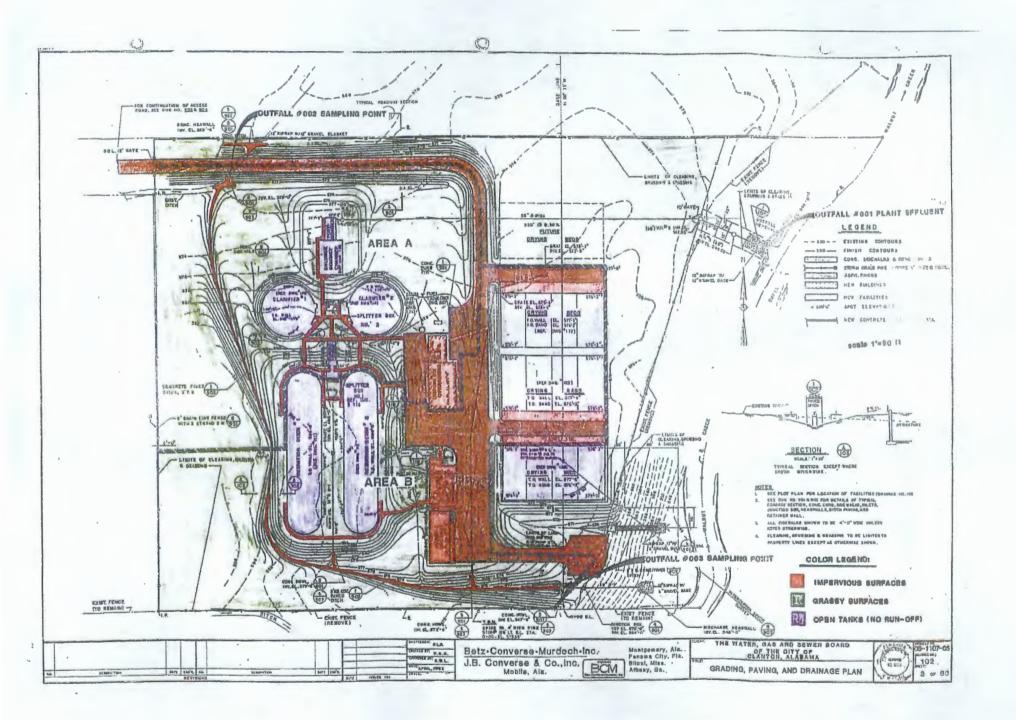
If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

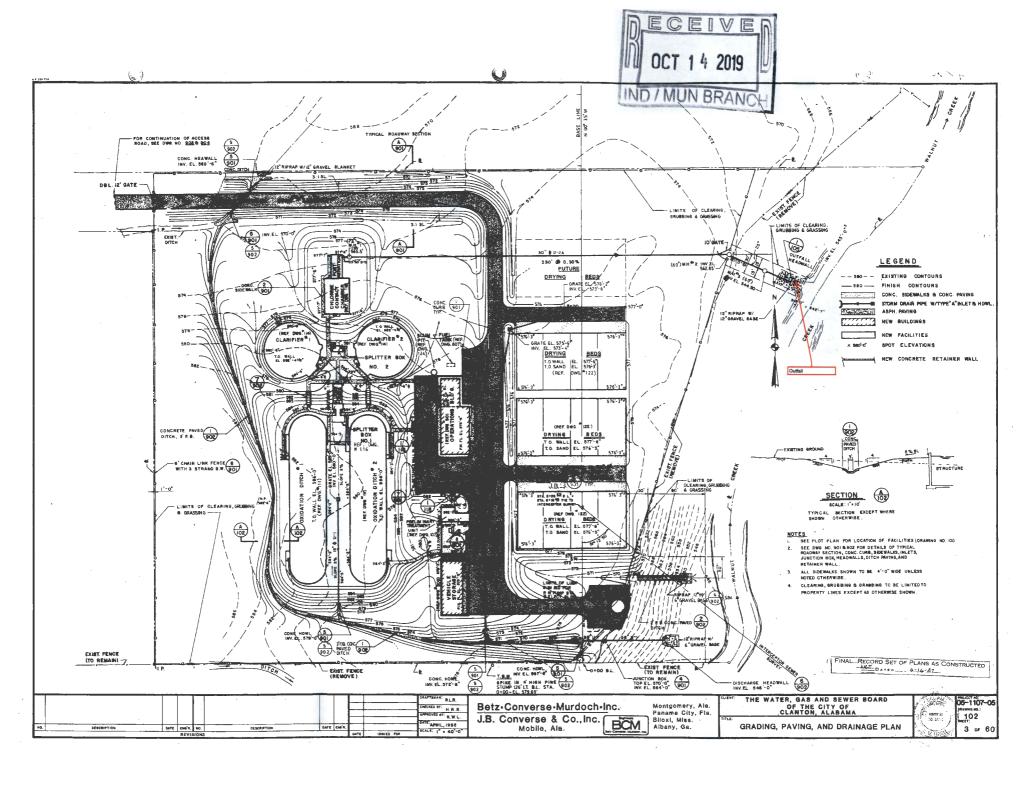
b. Lo 3	Outfall number Ocation 32deg 52' 06"	clanton (City or town, if applicable) chilton (County)		· · · · · · · · · · · · · · · · · · ·	35046 (Zip Code)		
3		(City or town, if applicable) chilton (County)			(Zip Code)		
3		(City or town, if applicable) chilton (County)		· · · · · ·	(Zip Code)		
	32deg 52 Ub	(County)					
c. D					al		
c. D					(State)	·	
c. D		32deg 52' 06" (Latitude)			86deg 35' 51" (Longitude)		
c. D		(Lautude)			(Longitude)		
	istance from shore (if	applicable)		ft.			
4 D	epth below surface (if	applicable)		a			
d. D	repiti below surface (ii	applicable)		ft.			
e. A	verage daily flow rate		2	.03 mgd			
		4					
f. D	oes this outfall have e	either an intermittent or a					
	eriodic discharge?	•	Voc		N- /	/ t- A D \	
			Yes		No ((go to A.9.g.)	
ļf	yes, provide the follow	ving information:					
			•				
N	lumber of times per ye	ar discharge occurs:	<u> </u>				
A٠	verage duration of each	ch discharge:					
A	verage flow per discha	arge:			mgd		
M	lonths in which discha	rge occurs:					
g. Is	outfall equipped with	a diffuser?	Yes		No		
D	dation of Decaled	141-4					
Desci	ription of Receiving	svaters.					
- N.	ama afransisina wata	r walnut creek					
a. Na	ame of receiving wate	Aguint Cleev					
	6					·	
b. Na	ame of watershed (if k	(nown)	walnut creek				
	" 1011 - 0.110						
Ur	nited States Soil Cons	servation Service 14-digit v	vatershed code (if known):				
						•	
c. Na	ame of State Manage	ment/River Basin (if known): <u>coosa r</u>	iver			
				-			
	nited States Geologic	al Survey 8-digit hydrologid	cataloging unit code (if kno	own):			
Ui							
	•	ining also and life and included.					
	ritical low flow of recei	iving stream (ii applicable):					
d. Cı	ritical low flow of receicute		chronic	c	fs		
d. Cr ac	cute	cfs	chronic				
d. Cr ac	cute	cfs					
d. Cr ac	cute	cfs	chronic				
d. Cr ac	cute	cfs	chronic				
d. Cr ac	cute	cfs	chronic				

L0054631 walnut creek wwtp				1	Form Approved 1/14/99 OMB Number 2040-0086					
A.11. Description of Treatment.										
a. What levels of treatment	are provide	ed? Check all t	hat apply.							
Primary			Secondary							
Advanced			Other. Descr	ibe:						
b. Indicate the following ren	noval rates	(as applicable).							
Design BOD removal or			,.				%			
3	Design Cb	5 Temovai		-						
Design SS removal				-			%			
Design P removal				_			%			
Design N removal				_			%			
Other				_			%			
c. What type of disinfection	is used for	the effluent fro	om this outfall'	? If disinfection var	nies by sea	son, pl	ease describ	e.		
chlorine										
If disinfection is by chlori	nation, is de	echlorination u	sed for this ou	tfall?	~	Yes	s		No	
					V	Ye:	-		No No	
d. Does the treatment plant										
	dicated eff e informati conducted er appropr	duent testing i ion on combir d using 40 CF riate QA/QC re	required by the sewer over R Part 136 me equirements	ne permitting aut erflows in this se ethods. In addition for standard metl	hority <u>for e</u> ction. All i on, this da nods for a	nform ta mu nalytes	ation report st comply w s not addres	ch whi ed mu ith QA sed b	ch effluent is st be based on data /QC requirements y 40 CFR Part 136.	
A.12. Effluent Testing Information parameters. Provide the indischarged. Do not include collected through analysis of 40 CFR Part 136 and oth At a minimum, effluent testing. Outfall number: 0011	dicated effi e informati conducted er appropr ting data m	fluent testing i ion on combir d using 40 CF riate QA/QC re nust be based	required by the ded sewer over R Part 136 me equirements to on at least the	ne permitting aut erflows in this se ethods. In addition for standard meti nree samples and	hority <u>for e</u> ction. All i on, this da nods for a	nform ta mus nalytes no mo	ation report st comply w s not addres	gh whi ed mu ith QA ssed b and o	ch effluent is st be based on data /QC requirements y 40 CFR Part 136. ne-half years apart	
A.12. Effluent Testing Information parameters. Provide the indischarged. Do not include collected through analysis of 40 CFR Part 136 and oth At a minimum, effluent testing.	dicated effi e informati conducted er appropr ting data m	fluent testing i ion on combir d using 40 CF riate QA/QC re nust be based	required by the decision of th	ne permitting aut erflows in this se ethods. In addition for standard meti nree samples and	hority for ection. All i on, this da nods for a I must be	nform ta mus nalytes no mo	ation report ation report st comply w s not addres re than four	gh whi ed mu ith QA ssed b and o	ch effluent is st be based on data VQC requirements y 40 CFR Part 136. ne-half years apart	
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A.12. Effluent Testing Information parameters. Provide the indischarged. Do not include collected through analysis of 40 CFR Part 136 and oth At a minimum, effluent testing. Outfall number: 0011	dicated effi e informati conducted er appropr ing data m	duent testing in on on combined using 40 CF riate QA/QC remust be based MAXIMUM Value	required by the decision of th	ne permitting aut erflows in this se ethods. In addition for standard meti nree samples and	hority for ection. All i on, this da nods for a I must be	nform ta mus nalytes no mo	ation report ation report st comply w s not addres re than four	gh whi ed mu ith QA ssed b and o	ch effluent is st be based on data VQC requirements y 40 CFR Part 136. ne-half years apart	
A.12. Effluent Testing Information parameters. Provide the indischarged. Do not includ collected through analysis of 40 CFR Part 136 and oth At a minimum, effluent tes Outfall number: 0011 PARAMETER	dicated effi e informati conducted er appropri ing data m	MAXIMUN Value	required by the ded sewer over R Part 136 me equirements to on at least the deduction of th	ne permitting auterflows in this seethods. In addition standard metionree samples and	hority for ection. All i on, this da nods for a I must be	each o nform ta mu: nalytes no mo	ation report ation report st comply w s not addres re than four	ed muith QA seed b and o	ch effluent is st be based on data VQC requirements y 40 CFR Part 136, ne-half years apart	
A.12. Effluent Testing Information parameters. Provide the in discharged. Do not includ collected through analysis of 40 CFR Part 136 and oth At a minimum, effluent test Outfall number: 0011 PARAMETER PH (Minimum) PH (Maximum) Flow Rate	dicated effi e informati conducted er appropri ing data m	duent testing in on on combined using 40 CF riate QA/QC remust be based MAXIMUM Value	required by the ded sewer over R Part 136 me equirements to on at least the deduction of th	ne permitting auterflows in this seethods. In addition standard methore samples and	hority for ection. All i on, this da nods for a I must be	nform ta mus nalytes no mo	ation report ation report st comply w s not addres re than four	gh whi ed mu ith QA ssed b and o	ch effluent is st be based on data VQC requirements y 40 CFR Part 136, ne-half years apart	
A.12. Effluent Testing Information parameters. Provide the in discharged. Do not includ collected through analysis of 40 CFR Part 136 and oth At a minimum, effluent testoutfall number: 0011 PARAMETER PH (Minimum) PH (Maximum) Flow Rate Temperature (Winter)	dicated effi e informati conducted er appropri ing data m	MAXIMUN Value	required by the ded sewer over R Part 136 me equirements to on at least the deduction of th	ne permitting auterflows in this seethods. In addition standard metionree samples and	hority for ection. All i on, this da nods for a I must be	each o nform ta mu: nalytes no mo	ation report ation report st comply w s not addres re than four	ed muith QA seed b and o	ch effluent is st be based on data VQC requirements y 40 CFR Part 136, ne-half years apart	
A.12. Effluent Testing Information parameters. Provide the in discharged. Do not includ collected through analysis of 40 CFR Part 136 and oth At a minimum, effluent test Outfall number: 0011 PARAMETER PH (Minimum) PH (Maximum) Flow Rate Temperature (Winter) Temperature (Summer)	dicated efficient of the conducted of th	MAXIMUN Value .91 .48	required by the ded sewer over R Part 136 me equirements on at least the deduction on at least the deduction of the deduction	ne permitting auterflows in this seethods. In addition standard metionree samples and	hority for ection. All i on, this da nods for a I must be	each o nform ta mu: nalytes no mo	ation report ation report st comply w s not addres re than four	ed muith QA seed b and o	ch effluent is st be based on data VQC requirements y 40 CFR Part 136, ne-half years apart	
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AL0054631 walnut creek wwtp

ВА	SIC	APPLICATION INFORMATION
PAR	ТВ	ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
All a	plic	ants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.	Inf	ow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. 200,000.00 gpd
		efly explain any steps underway or planned to minimize inflow and infiltration. epairing a plan to search for i and i
	_	
B.2.	Th	cographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries, is map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show entire area.)
	a.	The area surrounding the treatment plant, including all unit processes.
	b.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	c.	Each well where wastewater from the treatment plant is injected underground.
	d.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e.	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
B.3.	back	cess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all cup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., rination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily rates between treatment units. Include a brief narrative description of the diagram.
B.4.	Оре	ration/Maintenance Performed by Contractor(s).
		any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a ractor?Yes
		s, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional es if necessary).
	Nan	ne:
	Mai	ing Address:
	Tele	phone Number:
	Res	ponsibilities of Contractor:
B.5.	unc	eduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or impleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question for each. (If none, go to question B.6.)
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
	b.	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies. Yes No.





FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 AL0054631 walnut creek wwtp If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable). Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible. Schedule **Actual Completion** Implementation Stage MM / DD / YYYY MM / DD / YYYY - Begin construction - End construction - Begin discharge _______ - Attain operational level Have appropriate permits/clearances concerning other Federal/State requirements been obtained? Yes Describe briefly: B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY). Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Outfall Number: 0011 DOLLUTANT AVERAGE DAILY DISCHARGE MAXIMUM DAILY

POLLUTANT		CHARGE	AVERAC	SE DAILT DIS	CHARGE	411176					
	Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML / MDL				
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.											
AMMONIA (as N)	0.47	mg/l	0.30	mg/l	3.00						
CHLORINE (TOTAL RESIDUAL, TRC)	0.01	mg/l	0.01	mg/l	3.00						
DISSOLVED OXYGEN	9.42	mg/l	8.99	mg/l	3.00						
TOTAL KJELDAHL NITROGEN (TKN)	5.20	mg/l	2.10	mg/l	3.00						
NITRATE PLUS NITRITE NITROGEN	4.66	mg/l	1.60	mg/l	3.00						
OIL and GREASE	5.60	mg/l	2.80	mg/l	3.00						
PHOSPHORUS (Total)	0.86	mg/l	0.57	mg/l	3.00						
TOTAL DISSOLVED SOLIDS (TDS)	328.00	mg/l	206.00	mg/l	3.00						
OTHER											

END OF PART B.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

FACILITY NAME AND I	PERMIT NUMBER:		Form Approved 1/14/99 OMB Number 2040-0086
AL0054631 walnut cre	ek wwtp		ONIB NUMBER 2040-0080
BASIC APPLIC	ATION INFORMAT	ION	
PART C. CERTIFICA	TION		
applicants must complet have completed and are	e all applicable sections of F	orm 2A, as explained in the Appending the Application statement, application	rmine who is an officer for the purposes of this certification. All pplication Overview. Indicate below which parts of Form 2A you nts confirm that they have reviewed Form 2A and have completed
Indicate which parts of	Form 2A you have comple	eted and are submitting:	
Basic Appli	cation Information packet	Supplemental Application	nformation packet:
		Part D (Expanded	Effluent Testing Data)
		Part E (Toxicity Te	esting: Biomonitoring Data)
		Part F (Industrial I	Jser Discharges and RCRA/CERCLA Wastes)
		Part G (Combined	Sewer Systems)
ALL APPLICANTS MUS	ST COMPLETE THE FOLLO	WING CERTIFICATION.	
designed to assure that who manage the system	qualified personnel properly on those persons directly resided complete. I am aware that	gather and evaluate the inform sponsible for gathering the info	under my direction or supervision in accordance with a system nation submitted. Based on my inquiry of the person or persons ormation, the information is, to the best of my knowledge and for submitting false information, including the possibility of fine
Name and official title	billy joe driver mayor		
Signature	Billy Joe 9	Friver	·
Telephone number	(205) 755-4051		
Date signed	B-29-#2	019	
Upon request of the personal works or identify appropriate the control of the con	mitting authority, you must su riate permitting requirements	bmit any other information ne	cessary to assess wastewater treatment practices at the treatment

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:

walnutcreek wwtp AL0054631



Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 0011	(Cor	nplete c	once for	each out	fall disch	arging e	effluent to	o waters	of the Unite	ed States.)	
POLLUTANT	7		JM DAIL HARGE	Y	A'	VERAG	E DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	WIY WÖL
METALS (TOTAL RECOVERABLE),	CYANIDE,	PHENO	LS, AND	HARDNE	SS.						
ANTIMONY	.0006	mg/l	.0104	lbs/dy	.0002	mg/l	.0028	lbs/dy	3	200.8	.0005
ARSENIC	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	200.8	.0005
BERYLLIUM	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	200.8	.0005
CADMIUM	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	200.8	.0005
CHROMIUM	.0006	mg/l	.0104	lbs/dy	.0002	mg/l	0	ibs/dy	3	200.8	.0005
COPPER	.0032	mg/l	.0555	lbs/dy	.00176	mg/l	0	lbs/dy	3	200.8	.0005
LEAD	.0012	mg/l	.0152	lbs/dy	.0004	mg/l	.0057	lbs/dy	3	200.8	.0005
MERCURY	.00000126	mg/l	.0000159	lbs/dy	.900000767	mg/l	.0000110	lbs/dy	3	e1631	.00000050
NICKEL	.0639	mg/l	.8105	lbs/dy	.0393	mg/l	.568	lbs/dy	3	200.8	.0005
SELENIUM	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	200.8	.0005
SILVER	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	200.8	.0005
THALLIUM	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	200.8	.0005
ZINC	.0310	mg/l	.414	lbs/dy	.02166	mg/l	.3133	lbs/dy	3	200.8	.0010
CYANIDE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	m4500-cn	.010
TOTAL PHENOLIC COMPOUNDS	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	m5330	.10
HARDNESS (AS CaCO ₃)	94.7			lbs/dy	81		1171.3		3	200.7	1.0
Use this space (or a separate sheet) to	provide in	formation	on other	metals re	quested b	y the per	mit writer.				
								-			
			·								

FACILITY NAME AND PERMIT NUMBER: Walnut Creek WWTP AL0054631

NECEIVE NSEP 1 1 2019

Form Approved 1/14/99 OMB Number 2040-0086

IND / MUN BRANCH Outfall number: 0011 (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units Conc. Units Mass Units Number **ANALYTICAL** ML/ MDL Units Mass **METHOD** Ωf Samples VOLATILE ORGANIC COMPOUNDS. 3 624 .002 0 O 0 O mg/I ma/l lbs/dy **ACROLEIN** lbs/dy 3 624 .00210 O O 0 mg/l lbs/dy mg/l lbs/dv ACRYLONITRILE 3 624 .0014 O O 0 O BENZENE mg/l lbs/dy mg/l lbs/dy 3 624 .0016 0 0 0 0 BROMOFORM mg/l lbs/dy mg/l lbs/dy 3 624 .0011 O O CARBON TETRACHLORIDE O mg/l lbs/dy mg/l lbs/dy 3 624 .0015 0 0 0 0 mg/l CLOROBENZENE lbs/dy mg/l lbs/dy 3 624 .0015 0 0 0 0 mg/l CHLORODIBROMO-METHANE lbs/dy mg/l lbs/dy 3 624 .0012 0 0 0 O CHLOROETHANE mg/l lbs/dy mg/l lbs/dy 3 0 624 .0032 O lbs/dy O O 2-CHLORO-ETHYLVINYL mg/l mg/l lbs/dy **ETHER** 3 624 .0014 .0024 .0320 .0008 mg/l .0115 lbs/dy CHLOROFORM mg/l lbs/dy 3 624 .0016 0 0 0 0 DICHLOROBROMO-METHANE mg/l mg/l lbs/dy lbs/dy 3 624 .0015 O 0 1,1-DICHLOROETHANE mg/l lbs/dy mg/l lbs/dy 3 624 .0015 0 0 lbs/dy 0 0 mg/I lbs/dy 1,2-DICHLOROETHANE mg/i 3 624 .0013 0 0 O 0 TRANS-1,2-DICHLORO-ETHYLENE mg/l lbs/dy mg/l lbs/dy 3 624 .0014 O 0 O O 1,1-DICHLOROETHYLENE mg/l lbs/dy mg/l lbs/dy 3 624 .0015 O O O 0 1,2-DICHLOROPROPANE ma/l lbs/dy mg/l lbs/dy 3 624 .0015 O O 1,3-DICHLORO-PROPYLENE 0 0 lbs/dy mg/l lbs/dy mg/l 3 624 .0014 0 0 0 0 mg/i mg/l lbs/dy ETHYLBENZENE lbs/dy 3 624 .0014 0 O 0 O mg/l lbs/dy mg/l lbs/dy METHYL BROMIDE 3 624 0 .0012 0 0 0 mg/l METHYL CHLORIDE mg/l lbs/dy lbs/dy 3 624 .0046 0 0 0 O METHYLENE CHLORIDE mg/i lbs/dy mg/l lbs/dy 3 624 0 .0019 0 0 O mg/l lbs/dy mg/l lbs/dy 1,1,2,2-TETRACHLORO-ETHANE 3 624 .0014 0 0 0 0 mg/l TETRACHLORO-ETHYLENE mg/l lbs/dv lbs/dy 3 O 624 0 0 0 .0021 TOLUENE mg/l lbs/dy mg/l lbs/dy

FACILITY NAME AND PERMIT NUMBER:

walnutcreek wwtp AL0054631

SEP 1 1 2019

Form Approved 1/14/99 OMB Number 2040-0086

walnutcreek wwtp AL0054631	* 3 .			4.4.			100	A GI IN I	DDANO	,		
Outfall number: 0011									BRANC	itales.)		
POLLUTANT	٨		M DAIL' IARGE	Y	A۱	/ERAGE		DISCH	ARGE			
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	WLYMDL	
1,1,1-TRICHLOROETHANE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	624	.0012	
1,1,2-TRICHLOROETHANE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	624	.0015	
TRICHLORETHYLENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	624	.0014	
VINYL-CHLORIDE	0	mg/l		lbs/dy	· •	mg/l	ł	lbs/dy	9	624	.0011	
Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer.												
				ه به ا مسرغی می	i Parang				i Secusion in the contract of			
ACID-EXTRACTABLE COMPOUNDS		· ·					I+ "		2 5r			
P-CHLORO-M-CRESOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024	
2-CHLOROPHENOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024	
2,4-DICHLOROPHENOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024	
2.4-DÍMETHÝLPHENOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024	
4.6-DINITRO O CRESOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024	
2,4-DINITROPHENOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0095	
2-NITROPHENOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy		625	.0024	
4-NITROPHENOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024	
PENTACHLOROPHENOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0048	
PHENOL	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy		625	.0026	
2,4,6-TRICHLOROPHENOL Use this space (or a separate sheet) to	0	mg/l	_	lbs/dy	3.8	mg/l	i. –	lbs/dy		625	.0024	
Ose tills space (or a separate stieet) to	Dickine ii	nomado	Liou ome	I acid exil	aciapie co	,,,ipopirio	, request	ed by me	permayinej.			
BASE-NEUTRAL COMPOUNDS.	Ĺ <u>.</u> ,						<u> </u>	1			1	
minimum and a second of the se		Ī	· _	1		ŀ		1		005	0004	
ACENAPHTHENE	0	mg/l		lbs/dy	1 m 7 m	mg/l		lbs/dy		625	.0024	
ACENAPHTHYLENE:	0	mg/l		lbs/dy		mg/l		lbs/dy		625	.0024	
ANTHRACENE	0	mg/l	170	lbs/dy		mg/l		lbs/dÿ		625	.0024	
BENZIDINE	0	mg/l		lbs/dy		mg/l		lbş/dy		625	.0071	
BENZÓ(A)ANTHRACENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy		625	.0012	
BENZO(A)PYRENÉ	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0012	

FACILITY NAME AND PERMIT NUMBER:

walnutcreek wwtp AL0054631

SEP 1 1 2019 U

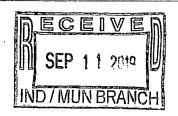
Form Approved 1/14/99 OMB Number 2040-0086

Outfall number: 0011	_(Comp	ete onc	e for eac	ch outfall	dischar				the United S	Company of the contract of the	
POLLUTANT	N		M DAIL	Υ	A	VERAGE	DAILY	DISCHA	RGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	Wrî'Wbr
3,4 BENZO-FLUORANTHENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
BENZO(GHI)PERYLENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
BENZO(K)FLUORANTHENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0012
BIS (2-CHLOROETHOXY) METHANE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
BIS (2-CHLOROETHYL) ETHER,	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
BIS (2-CHLOROISO-PROPYL) ETHER	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
BIS (2-ETHYLHEXYL) PHTHALATE	0	mg/l	0	lbs/dy	0	mg/i	0	lbs/dy	3	625	.0024
4-BRÓMOPHEÑYL PHÈÑYL ETHER	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
BUTYL BENZYL PHTHALATE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
2-CHLORONAPHTHALENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
4-CHLORPHENYL PHENYL ETHER:	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
CHRYSENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0012
DI-N-BUTYL PHTHALATE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
DI-N-OCTYL PHŢHĄĽATE:	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
DIBENZO(A,H) ANTHRACENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0012
1;2-DICHLOROBENZENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	624	.005
1,3-DICHLOROBENZENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	624	.005
1.4-DICHLOROBENZENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	624	.005
3,3-DICHLOROBENZIDINE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0012
DIETHYL PHTHALATE	0	mg/l	0	lbs/dy	0	mg/i	0	lbs/dy	3	625	.0024
DIMETHYL PHTHALATE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
2,4 DINITROTOLUENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
2,6-DINITROTOLÜENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
1,2-DIPHENYLHYDRAZINE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024

walnutcreek wwtp AL0054631

Outfall number: 0011									the United S	States.)	
POLLUTANT	MAXIMUM DAILY DISCHARGE			AVERAGE DAILY DISCHARGE							
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
FLUORENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
HEXACHLOROBENZENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0012
HEXACHLOROBUTADIENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
HEXACHLOROCYCLO- PENTADIENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0095
HEXACHLOROETHANE	0	mg/i	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
INDENO(1,2,3-CD)PYRENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0012
ISOPHORONE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
NAPHTHALENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
NITROBENZENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625.00	.0024
N-NITROSODI-N-PROPYLAMINE	0	mg/l	0	lbs/dy	0	mg/I	0	lbs/dy	3	625	.0024
N-NITROSODI- METHYLAMINE	0	mg/l	0	lbs/dy	0	mg/l	0	lbş/dy	3	625	.0024
N-NITROSODI-PHENYLAMINE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
PHENANTHRENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
PYRENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
1,2,4-TRICHLOROBENZENE	0	mg/l	0	lbs/dy	0	mg/l	0	lbs/dy	3	625	.0024
Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.											
Use this space (or a separate sheet) to	provide in	formation	on other	pollutants	s (e.g., pe	sticides) i	equestec	by the p	ermit writer.		

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE



FACILITY NAME AND PERMIT NUMBER	:
TUSKEGEE NORTH WPCP AL004876	33

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity
 test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results
 of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.
 If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to

complete.	The state of the s						
E.1. Required Tests. Test Summaries are included in lieu of Part E.							
Indicate the number of whole effluen	t toxicity tests conducted in the past	four and one-half years.					
chronicacute							
E.2. Individual Test Data. Complete the	following chart for each whole efflue	ent toxicity test conducted in the last for if more than three tests are being repo	ur and one-half years. Allow one				
Column per test (whole each species	Test number:		Test number:				
a Tost information							
a. Test information.		1					
Test species & test method number							
Age at initiation of test							
Outfall number							
Dates sample collected							
Date test started							
Duration							
b. Give toxicity test methods followed.							
Manual title	A Constitution of the Cons						
Edition number and year of publication							
Page number(s)							
c. Give the sample collection metho	od(s) used. For multiple grab sample	es, indicate the number of grab sample	s used.				
24-Hour composite							
Grab							
d. Indicate where the sample was ta	aken in relation to disinfection. (Chec	k all that apply for each)					
Before disinfection							
After disinfection							
After dechlorination							

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FACILITY NAME AND PERMIT NUMBER: TUSKEGEE NORTH WPCP AL0048763

	Test number:	Test number:	Test number:				
e. Describe the point in the treatment process at which the sample was collected.							
Sample was collected:							
f. For each test, include whether the	e test was intended to assess chronic	c toxicity, acute toxicity, or both.	TO COLUMN TO THE COLUMN THE COLUMN TO THE CO				
Chronic toxicity							
Acute toxicity							
g. Provide the type of test performe	d.						
Static							
Static-renewal							
Flow-through							
h. Source of dilution water. If labora	atory water, specify type; if receiving	water, specify source.					
Laboratory water							
Receiving water							
i. Type of dilution water. It salt water	r, specify "natural" or type of artificia	l sea salts or brine used.					
Fresh water							
Salt water							
j. Give the percentage effluent used	for all concentrations in the test seri	es.					
k. Parameters measured during the	test. (State whether parameter mee	ts test method specifications)					
рН		<u> </u>					
Salinity							
Temperature							
Ammonia							
Dissolved oxygen							
I. Test Results.							
Acute:							
Percent survival in 100% effluent	%	%	%				
LC ₅₀							
95% C.I.	%	%	%				
Control percent survival	%	%	%				
Other (describe)							

FACILITY NAME AND PERMIT NUMBER: USKEGEE NORTH WPCP AL0048763	Form Approved 1/14/99 OMB Number 2040-0086		
Chronic:			
NOEC	%	%	%
IC ₂₅	%	%	%
Control percent survival	%	%	9
Other (describe)			
m. Quality Control/Quality Assurance.			
s reference toxicant data available?			
Vas reference toxicant test within acceptable bounds?			
What date was reference toxicant test un (MM/DD/YYYY)?			
Other (describe)			
YesNo If yes, describe:YesNo If yes, describe:No If yes, describe:No If yes, describe:No If yes, describe:No If yes, describe:	rmation. If you have submitted bior years, provide the dates the information.	monitoring test information, or informa-	ation regarding the authority and a
Date submitted: (MM/DD/	YYYY)		
Summary of results: (see instructions)			

2A YOU MUST COMPLETE.

AL0054631 walnut creek wwtp

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F. GENERAL INFORMATION: F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? Yes F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works. 2.00 a. Number of non-categorical SIUs. b. Number of ClUs. SIGNIFICANT INDUSTRIAL USER INFORMATION: Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU. F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary. adient Name: 2541 7th street south clanton al 35046 Mailing Address: F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge. metal finishing operations Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's F.5. discharge. Principal product(s): metal frames for electrical seats for auto industry metals, acids for cleaning parts Raw material(s): F.6. Flow Rate. a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. continuous or ____ intermittent) 13,500.00 gpd b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. 5,000.00 continuous or intermittent) F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following: Yes ___No a. Local limits b. Categorical pretreatment standards Yes No If subject to categorical pretreatment standards, which category and subcategory?

PAC	IIIY NAME AND PERMII NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086
F.8.	Problems at the Treatment Works Attributed to Waste Discharged by upsets, interference) at the treatment works in the past three years?	the SIU. Has the SIU caused or contributed to any problems (e.g.,
	Yes No If yes, describe each episode.	
RCF	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DED	ICATED PIPELINE:
F.9.	RCRA Waste. Does the treatment works receive or has it in the past three pipe? Yes No (go to F.12.)	years received RCRA hazardous waste by truck, rail, or dedicated
F.10.	Waste Transport. Method by which RCRA waste is received (check all the	
	TruckRailDedicated Pipe	SEP 04 2019
F.11.	Waste Description. Give EPA hazardous waste number and amount (vol EPA Hazardous Waste Number Amount	ume or mass, specify units). IND / MUN BRANCH Units
0==		
	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/COI ON WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTI	
F.12.	Remediation Waste. Does the treatment works currently (or has it been r	notified that it will) receive waste from remedial activities?
	Yes (complete F.13 through F.15.)	
	Provide a list of sites and the requested information (F.13 = F.15.) for each	current and future site.
F.13.	Waste Origin. Describe the site and type of facility at which the CERCLA in the next five years).	RCRA/or other remedial waste originates (or is expected to originate
,		.,,
F.14.	Pollutants. List the hazardous constituents that are received (or are expeknown. (Attach additional sheets if necessary).	cted to be received). Include data on volume and concentration, if
E 45	Wasta Tradiment	
F. (5.	Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatmen	t works?
	YesNo	
	If yes, describe the treatment (provide information about the removal e	fficiency):
	b. Is the discharge (or will the discharge be) continuous or intermittent?	
	ContinuousIntermittent If intermittent,	describe discharge schedule.
	END OF PAR	
	ER TO THE ADDITIONATION OVEDVIEW TO DET	redarke willich other rate of robe

2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

AL0054631 walnut creek wwtp

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES PART F. All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F. **GENERAL INFORMATION:** F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works. 2.00 a. Number of non-categorical SIUs. b. Number of CIUs. SIGNIFICANT INDUSTRIAL USER INFORMATION: Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU. F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary. Name: 725 keystone drive clanton al 35045 Mailing Address: F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge. metal finishing operations F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge. anodizing of various metal parts Principal product(s): metals, acids for cleaning parts Raw material(s): F.6. Flow Rate. a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. (continuous or intermittent) b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. gpd (___continuous or ___intermittent) 5.000.00 F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following: V Yes a. Local limits Yes b. Categorical pretreatment standards If subject to categorical pretreatment standards, which category and subcategory?

upsets, interfe Yes_ nickel,coppe RCRA HAZARDO F.9. RCRA Waste. pipe? F.10. Waste TranspTruck F.11. Waste Descri EPA Hazardo CERCLA (SUPER ACTION WASTEN F.12. RemediationYes (con Provide a list F.13. Waste Origin in the next five F.14. Pollutants. L known. (Attact F.15. Waste Treatm a. Is this wasYes	rence) at the treatment work No If yes, description, nitrafaction issues, foar US WASTE RECEIVED	rks in the past to cribe each epison ming problem D BY TRUCK	three years? ode. is, and nickel in slu , RAIL, OR DEDIC	SIU. Has the SIU caused or contributed	to any problems (e.g.,
nickel,coppe RCRA HAZARDO F.9. RCRA Waste. pipe? Truck F.10. Waste TranspTruck F.11. Waste Descri EPA Hazardo CERCLA (SUPER ACTION WASTE) F.12. RemediationYes (col Provide a list in the next five F.13. Waste Origin in the next five F.14. Pollutants. L known. (Attac	US WASTE RECEIVED Does the treatment works Yes V No (go to F.12.)	D BY TRUCK	s, and nickel in slu	dge	
CRA HAZARDO 9. RCRA Waste. pipe? 10. Waste TranspTruck 11. Waste Descri EPA Hazardou EPA Hazardou 12. RemediationYes (col Provide a list 13. Waste Origin in the next five 14. Pollutants. L known. (Attac	US WASTE RECEIVED Does the treatment works Yes ✓ No (go to F.12.)	D BY TRUCK	, RAIL, OR DEDIC	dge	
.9. RCRA Waste. pipe? .10. Waste TranspTruck .11. Waste Descri EPA Hazardou EPA Hazardou .12. RemediationYes (col Provide a list .13. Waste Origin in the next five .14. Pollutants. L known. (Attac	Does the treatment works Yes <u>✓</u> No (go to F.12.)				
.10. Waste Transparent Truck .11. Waste Descripe A Hazardou EPA Hazardou IPROVIDE A list .13. Waste Origin In the next five In the next	Does the treatment works Yes <u>✓</u> No (go to F.12.)				
Dipe? Truck EPA Hazardon EPA Hazardon Yes (con Provide a list Truck Truck Truck Truck Truck Truck EPA Hazardon TepA Hazar	Yes No (go to F.12.)	receive or has		ATED PIPELINE:	
Truck .11. Waste Descri EPA Hazardou EPA Hazardou ERCLA (SUPER CTION WASTE) .12. Remediation Yes (col Provide a list .13. Waste Origin in the next five .14. Pollutants. L known. (Attac	ort. Method by which RC		if in the past three ye	ears received RCRA hazardous waste by	truck, rail, or dedicated
ERCLA (SUPER CTION WASTE) .12. Remediation Yes (con Provide a list of the next five in the next five i		RA waste is re	ceived (check all that	apply):	
ERCLA (SUPER CTION WASTE) .12. Remediation Yes (col Provide a list of the next five in the next five i	Rail	Dec	dicated Pipe		
.12. RemediationYes (col Provide a list .13. Waste Origin in the next five .14. Pollutants. L known. (Attac	ption. Give EPA hazardou	us waste numb	er and amount (volun	ne or mass, specify units).	
7.12. Remediation Yes (con Provide a list 7.13. Waste Origin in the next five 7.14. Pollutants. L known. (Attact 7.15. Waste Treatm a. Is this was Yes	s Waste Number	<u> </u>	Amount	<u>Units</u>	
.12. Remediation Yes (con Provide a list .13. Waste Origin in the next five .14. Pollutants. L known. (Attac		_			
.12. Remediation Yes (con Provide a list .13. Waste Origin in the next five .14. Pollutants. L known. (Attac					
.12. Remediation Yes (con Provide a list .13. Waste Origin in the next five .14. Pollutants. L known. (Attac		2 2024 25			
Yes (con Provide a list of	VATER, AND OTHER F				
Provide a list 13. Waste Origin in the next five 14. Pollutants. L known. (Attac	Waste. Does the treatmer	nt works curren	tty (or has it been not	ified that it will) receive waste from remed	ial activities?
.13. Waste Origin in the next five	nplete F.13 through F.15.)		No		
in the next five	of sites and the requested i	information (F.	13 - F.15.) for each c	irrent and future site.	
F.14. Pollutants. L known. (Attac					
F.14. Pollutants. L known. (Attac		e of facility at v	which the CERCLA/Re	CRA/or other remedial waste originates (o	r is expected to origina
i.15. Waste Treatm a. Is this was					
i.15. Waste Treatm a. Is this was					
i.15. Waste Treatm a. Is this was					
a. Is this was	ist the hazardous constitue h additional sheets if neces		ceived (or are expecte	ed to be received). Include data on volum	e and concentration, if
a. Is this was		Page 1 Street			
Yes	ent.				
10-8-7-8-1-9	te treated (or will it be treat	ted) prior to en	tering the treatment w	rorks?	
If ves. des	No				
,,	cribe the treatment (provide	e information a	bout the removal effic	iency):	
b. Is the disc	narge (or will the discharge	e be) continuou	s or intermittent?		
Conti		ntermittent		scribe discharge schedule.	
	nuous Ir				

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 & 7550-22.

		' NAME AND PERMIT N 31 walnut creek wwtp	UMBER:		Form Approved 1/14/99 OMB Number 2040-0086
SU	PP	LEMENTAL API	PLICATION INFORMATION		
PAF	RT (G. COMBINED SEV	VER SYSTEMS		
If the	trea	atment works has a cor	nbined sewer system, complete Part G.	-	
G.1.	Sys	tem Map. Provide a ma	p indicating the following: (may be included with	n Basic Application Information)	
	a.	All CSO discharge point	s.		
	b.	Sensitive use areas pot- outstanding natural reso	entially affected by CSOs (e.g., beaches, drinkin ource waters).	ng water supplies, shellfish beds, sen	sitive aquatic ecosystems, and
	c.	Waters that support three	eatened and endangered species potentially affor	ected by CSOs.	
G.2.		tem Diagram. Provide at includes the following in	a diagram, either in the map provided in G.1. or iformation:	on a separate drawing, of the combi	ned sewer collection system
	a.	Locations of major sewe	er trunk lines, both combined and separate sani	tary.	
	b.	Locations of points whe	re separate sanitary sewers feed into the combi	ned sewer system.	
	c.	Locations of in-line and	off-line storage structures.		
	d.	Locations of flow-regula	ting devices.		
	e.	Locations of pump station	ons.		
CSC) Ol	JTFALLS:			
Con	plet	e questions G.3 throug	h G.6 once for each CSO discharge point.		
G.3.	Des	cription of Outfall.			
			7/2		
	a.	Outfall number	n/a		
	b.	Location			
			(City or town, if applicable)	(Zip Code)	
			(County)	(State)	
			(Latitude)	(Longitude)	
	c.	Distance from shore (if	applicable)	ft.	
	d.	Depth below surface (if	applicable)	ft.	
	e.	Which of the following v	vere monitored during the last year for this CSO	?	
				2007	
		Rainfall	CSO pollutant concentrations	CSO frequency	
		CSO flow volume	Receiving water quality		
	f.	How many storm events	s were monitored during the last year?		
G.4.	CS	D Events.			
	a.	Give the number of CS	O events in the last year.		
			_ actual or approx.)		

hours (____ actual or ____ approx.)

b. Give the average duration per CSO event.

FACILI	TY NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086
\L0054	631 walnut creek wwtp	
С	. Give the average volume per CSO event.	
	million gallons (actual orapprox.)	
d	. Give the minimum rainfall that caused a CSO event in the last year.	
	inches of rainfall	
G.5. De	escription of Receiving Waters.	
а	. Name of receiving water: n/a	
b		
	United States Soil Conservation Service 14-digit watershed code (if known	own):
С	. Name of State Management/River Basin:	
	United States Geological Survey 8-digit hydrologic cataloging unit code	e (if known):
G.6. C	SO Operations.	
p	Describe any known water quality impacts on the receiving water caused bermanent or intermittent shell fish bed closings, fish kills, fish advisories, quality standard).	
<u>r</u>	n/a	
_		

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

year 2015

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT TOXICITY TEST REPORT SUMMARY

gent su		Report:	Mr.	ek WWTP Anthony	Kelly				J. T 41				
	ducting 1 To Test:	Toxicity T	est(s):	Aubu	rn Envi	ronment	al Con	sulting an	a resting				
his Rep	ort for Ted ed Test(s	oxicity Te	est(s) R		lo _	nth of:		ember erated Test		'es	Data:	No	X
	e Requir	ed:	Short-te	8-Hr Acute rm Chronic	Screen	4	X	_	Short-ter	-Hr Acu m Chron	ite Defini nic Defini		
Sam No.	Date/1	ime	Start	Date/Time			ntrol	Date/Time	e Start	: Date/	Time		
1				11/10/15	1100}	ır y	es					400hr	yes
	SUMMA	RY OF F	RESULT	S FOR SO	CREENI	NG TES	r:						
T4	- "		(4)			(0)	Tes	t Number	(2)			741	
Test Org.	Conc.	Sur	Rep	Gro	Sur	(2) Rep	Gro	Sur	(3) Rep	Gro	Sur	(4) Rep	Gro
P.p.	75% 75%	Pass Pass	N/A Pass	Pass N/A									
		RY OF						******					
Te	st		Te	est Solution	Cance	ntration	(%)		LC50	NOEC	No	ot Deterr	nined
	LABOR	ATORY	ANALYS	SIS OF UN	IDILUTE	D SAMP	LES:						
Sample ID	1		TSS mg/L	1		pH ma/L			-	TRC mg/L			
1	N	A	3.0	0.3		7.22	56		21	<0.01	N/A		
3			1.4	<0.1 0.2									
Sample ID	Arsen	ic (µg/L)	Cadm	ium (µg/L)	Chron	nium (µg/1	L) Co	pper (µg/L)	Lead (µ	ig/L)	Hexav.	Chromit	/L/6d) UL
Sample ID	Mercu	Iry (µg/L)	Nicke	(µg/L)	Silver	(µg/L)	Zin	ic (µg/L)	Tot. Cy (µg/L)	anide	Other(s	;) (µg/L)	
hemica	l Analysi	s Perform	ned By	(LAB):	ACT				1			00033	
	Test Organism: Pimephales promelas Test Organism: Ceriodaphnia dubia Test Date/Time												
otal 24-	Hour Flo	w:	(1)	1.453	MG	D	(2)	1.265	MGD		(3)	1.255	MGE
ommen	ts:												
		of law that t										- 45	

ADEM 465 8-02

Facility Nam	e: Wain	ut Creek	WWTP	NPDES	#: _	AL0054	631	DSN:	001	Date:		11/03/15	-
. SAMF	PLE COLL	ECTION:											
Split Sample	s: N/A	х	Yes	(expi	ain)								
													_
Receiving W	 /ater		Wair	ut Creek				Design	Flow:	2.2	5	(MGD)	_
Sample		Sam	ple(s) Collected		Т	Arr	ival		Use	ed in To	est(s)		1
ID		MHH YY	IM - MM/D	WHH AVVO					N/DD/Y	' -	MM/E	DDYY	
CN-73-1													_
													4
011-70-0	11/00/10	0750	711 - 11700	10 0/00	7441			-	707710		* ** ***	710	
CONT	FROL / DIL	UTION W	ATER:										
Type							Ir	nitial Wat	er Chen	nistries			
						Hard.	Alk.		рН	Co	nd.	@ °C	
MHRW	SAMPLE COLLECTION: It Samples: N/A												
	SAMPLE COLLECTION: it Samples: N/A												
					+								4
												an and of the second	لے
		THE RESIDENCE OF THE PARTY OF T		100 N. MARIO		_							
							Test	Solution	Conce	ntration	ıs (%)		
	£2A	House				75%		-1-				-	4
					1	<u> </u>							-
		110413	Aubum Lii	VIIOMINENTE		1378							J
Test		Test \	/essel	Vess	al .		Solution		Ora / To	est	Re	nlicates	٦
				1									
		Glass I	Beaker	600			250		15			4	
Cd		Plasti	с Сир	30			15		1			10	
		a an array of the same			· / 24 / 44 =						A CONTRACTOR OF THE SECOND		_
<u>-</u>							pH R	lange (m	g/L)	Ligh			
													l
Co	1	24	l.5 – 25.0	7.8	- 8.1		7.	20 – 7.73	3		89.	9	J
FEED Not Fed: _	ING:	_ Fe	ed Daily:	(Fed	d irregul	ar:		(Explai	n in cor	nment	s below)	
Brine Shrimp	:	Fed 0		•	Newl	y Hatch	ed	:	2	Times	Daily.		
CT:		Fed			ntain	ing		1	.9	mg/L	TSS D	aily.	
Ngae:	l							+					
COMMENTS	: Temp	erature ra	nge obtained fro	om min/max	therr	nomete	r						_
				page 2	of A	l							_
				paye 2	VI 4	r							

ADEM 465 8-02

Facility Na	ame: _	Walnut C	reek WWTP	NPDES #:	ALOO	54631	DSN:	001	Date:	11/03/15
. RE	FEREN	CE TOXI	CANT TESTS:							
Toxicant:	Sodi	um Chlor	ide	Source:	Fisher S	Scientific		_ (CAS#:	7647-14-5
Solution c	oncentra	ation unit:	mg/L	g/L	X	%		other	(specify):	
Test	Ť	est Date	Control		Refe	erence Te	est Solution	on Con	centrations	
Pp		0/13/15	MHRW	1.0	1.5	2.0	2.5		.0	
Cd	1	0/13/15	MHRW	0.5	0.75	1.0	1.25	1	.5	
Test Pp	Resu	its	95% Confidence II	nterval	Upper	and Low	er CUSU	M Cha	rt Control	Number
Cd										
.B. Te	st Soluti	on Manip	ulations or Test Modifi	cations:						
Att. Phy	ach copi ysical, C	es of Cha	T ATTACHMENTS: ain-of-Custody Forms, and Biological Measu							
OMMENT	-									

Facility Name: Walnut Cree	kWWTP N	PDES#: AL	0054631 DS	N: <u>001</u>	Date: 11/03/15
11.C. CHRONIC SCREENING	TOXICITY TESTS R	ESULTS (Fresh	water):		
TEST ORGANISM: Cerioda Were Neonates Used to Begin Did 60% of the CONTROL Fen			•	Yes: X	No:
SURVIVAL					
CHRONIC TOXICITY INDICAT		ES	NO	X	
NO SURVIVAL STATISTICAL					
CONTROL(%) 24h 100	48h 100 END	100 EFFLUE	ENT(%) 24h	48h	100 END 100
Fishers Exact Test	A =	B =	a=		b =
REPRODUCTION (Average CHRONIC TOXICITY INDICATE	e Neonates/Female) ED: Y	ES	NO	X	
NO REPRODUCTION STATIS	TICAL ANALYSIS NE	CESSARY:	X		
CONTROL: 18.4	EFFLUE	NT: 23.0			
Normally Distributed:	YES	NO			
Test Statistic:	Critical Val	ue: 0.868		(Parametric)	
Equal variance:	Un	equal variance:			
F Statistic:		Critical F:	5.35		
t - Test Statistic:	t Tes	t Critical Value:	1.735		
Sample Rank Sum:	# Reps.:		Critical Rank	Sum:	(Non - Parametric)
COMMENTS:					
SURVIVAL	ales promelas				
SURVIVAL CHRONIC TOXICITY INDICAT	ED: Y	ES	NO _	x	
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL	TED: Y ANALYSIS NECESSA	ARY: X			
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100	TED: Y ANALYSIS NECESSA 48h 95.0 END	NRY: X 93.3 EFFLUE		X	96.7 END 95.0
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed:	TED: Y ANALYSIS NECESSA 48h 95.0 END YES	ARY: X 93.3 EFFLUE NO		100 48h	
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic:	ANALYSIS NECESSA 48h 95.0 END YES	NO 0.749	ENT(%) 24h		
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance:	ANALYSIS NECESSA 48h 95.0 END YES	NO ue: 0.749 equal variance:	ENT(%) 24h	100 48h	
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic:	ANALYSIS NECESSA 48h 95.0 END YES Critical Value	NO ue: 0.749 equal variance: Critical F:	ENT(%) 24h	100 48h	
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic:	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Tesi	NO ue: 0.749 equal variance: Critical F: t Critical Value:	X 29.5 1.94	100 48h (Parametric)	
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sum:	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.:	NO ue: 0.749 equal variance: Critical F: t Critical Value:	ENT(%) 24h	100 48h (Parametric)	
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic:	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.:	NO ue: 0.749 equal variance: Critical F: t Critical Value:	X 29.5 1.94	100 48h (Parametric)	
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sum: GROWTH (Mean Dry Weig	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.:	NRY: X 93.3 EFFLUE NO ue: 0.749 equal variance: Critical F: t Critical Value: 4	X 29.5 1.94 Critical Rank S		
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sum: GROWTH (Mean Dry Weig CHRONIC TOXICITY INDICAT	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.:	NRY: X 93.3 EFFLUE NO ue: 0.749 equal variance: Critical F: t Critical Value: 4 ES RY: X	29.5 1.94 Critical Rank S		
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sum: GROWTH (Mean Dry Weig CHRONIC TOXICITY INDICAT NO GROWTH STATISTICAL A	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.: ht - mg) ED: Y	NRY: X 93.3 EFFLUE NO ue: 0.749 equal variance: Critical F: t Critical Value: 4 ES RY: X	29.5 1.94 Critical Rank S		
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sum: GROWTH (Mean Dry Weig CHRONIC TOXICITY INDICAT NO GROWTH STATISTICAL A CONTROL: 0.44633	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.: ht - mg) ED: YI NALYSIS NECESSAF	NRY: X 93.3 EFFLUE NO ue: 0.749 equal variance: Critical F: t Critical Value: 4 ES RY: X NT: 0.52863	29.5 1.94 Critical Rank S		(Non - Parametric)
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sum: GROWTH (Mean Dry Weig CHRONIC TOXICITY INDICAT NO GROWTH STATISTICAL A CONTROL: 0.44633 Normally Distributed:	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.: ht - mg) ED: NALYSIS NECESSAF EFFLUEN YES X Critical Value	NRY: X 93.3 EFFLUE NO ue: 0.749 equal variance: Critical F: t Critical Value: 4 ES RY: X NT: 0.52863	29.5 1.94 Critical Rank S		(Non - Parametric)
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sum: GROWTH (Mean Dry Weig CHRONIC TOXICITY INDICAT NO GROWTH STATISTICAL A CONTROL: 0.44633 Normally Distributed: Test Statistic:	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.: ht - mg) ED: NALYSIS NECESSAF EFFLUEN YES X Critical Value	NRY: X 93.3 EFFLUE NO ue: 0.749 equal variance: Critical F: t Critical Value: 4 ES RY: X NT: 0.52863 NO ue: 0.749	29.5 1.94 Critical Rank S		(Non - Parametric)
SURVIVAL CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sum: GROWTH (Mean Dry Weig CHRONIC TOXICITY INDICAT NO GROWTH STATISTICAL A CONTROL: 0.44633 Normally Distributed: Test Statistic: Equal variance:	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.: ht - mg) ED: YES EFFLUEN YES Critical Value Und	NRY: X 93.3 EFFLUE NO ue: 0.749 equal variance: Critical F: t Critical Value: 4 ES RY: X NT: 0.52863 NO ue: 0.749 equal variance:	X 29.5 1.94 Critical Rank S		(Non - Parametric)
CHRONIC TOXICITY INDICAT NO SURVIVAL STATISTICAL A CONTROL(%) 24h 100 Normally Distributed: Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sum: GROWTH (Mean Dry Weig CHRONIC TOXICITY INDICAT NO GROWTH STATISTICAL A CONTROL: 0.44633 Normally Distributed: Test Statistic: Equal variance: F Statistic:	ANALYSIS NECESSA 48h 95.0 END YES Critical Value t - Test # Reps.: ht - mg) ED: YES EFFLUEN YES Critical Value Und	NRY: X 93.3 EFFLUE NO ue: 0.749 equal variance: Critical F: t Critical Value: 4 ES RY: X NT: 0.52863 NO ue: 0.749 equal variance: Critical F: t Critical Value:	X 29.5 1.94 Critical Rank S	100 48h (Parametric)	(Non - Parametric)



WATER CHEMISTRY DATA SHEET

STUDY NUMBER:

DILUTION LOT#: 659

SAMPLE ID:	SAMPLE ID: DATE COLLECTED: DATE ANALYZED:	SAMPLE ID: DATE COLLECTED: DATE ANALYZED:
D.O. (MG/L) pH (S.U.) (MVOLTS/ NH ₃ MG/L) CONDUCTIVITY 278.0 (MMOS/CM)	ANALYST D.O. (MG/L) pH (S.U.) {MVOLTS/ NH (MG/L) CONDUCTIVITY (UMHOS/CM)	ANALYST D.O. (MG/L) pH (S.U.) (MVOLTS/ NH; (MG/L) CONDUCTIVITY
CHLORINE (MG/L)	CHLORINE (MG/L)	CHLORINE (MG/L)
DATE ANALYZED: READING 1: READING 2: * DIFFERENCE: ANALYST	DATE ANALYZED: READING 1: READING 2: * DIFFERENCE: ANALYST	DATE ANALYZED: READING 1: READING 2: * DIFFERENCE: ANALYST
HARDNESS (50 mL SAMPLE) ml titrant 8.6 x10 = 86 mg/l caco, analyst RO	HARDNESS (50 mL SAMPLE) ml TITRANT x10 = MQA Caco; ANALYST	HARDNESS (50 mL SAMPLE) mL TITRANT x10 =MG/L C=CO; ANALYST
ALKALINITY (50 mL SAMPLE) ml titrant 3.5 × 20 = 70 mg/l c=c0, analyst AB	ALKALINITY (50 mL SAMPLE) mL TITRANT x20 = MG/L CaCO ₃ ANALYST	ALKALINITY (50 mL SAMPLE) mL TITRANT 20 = MQ/L CaCO, ANALYST
TOTAL SUSPENDED SOLIDS (SAMPLE VOLUME:	TOTAL SUSPENDED SOLIDS (SAMPLE VOLUME:	TOTAL SUSPENDED SOLIDS (SAMPLE VOLUME:
ANALYST	ANALYST	ANALYST

* = dechlorinated with 7 mg/L sodium thiosulfate per 1 mg/L chlorine (reading 1)

UNLESS OTHERWISE INDICATED, THESE DATA WERE COLLECTED IN ACCORDANCE WITH SOP #'S

 AC

WATER CHEMISTRY DATA SHEET

STUDY NUMBER: 275

DILUTION LOT#: 459

SAMPLE ID: 12841do DATE COLLECTED: 02NW15 DATE ANALYZED: 05NW15	SAMPLE ID: 128513 DATE COLLECTED: DYNO/15 DATE ANALYZED: IDNO/15	SAMPLE ID: 128525 DATE COLLECTED: DIANUIS DATE ANALYZED: 10ANIS
D.O. (MG/L) pH (S.U.) RWOOLTS/ NH ₃ MG/L) CONDUCTIVITY 531 (UMHOS/CM) ANALYST AB ANALYST AB ANALYST AB ANALYST AB AB AB AB ANALYST	ANALYST D.O. (MG/L) ph (s.u.) 7-45 AB (MVOLTS/ MG/L) AB NH (MG/L) CONDUCTIVITY-123.1 AB (UMHOS/CM)	D.O. (MG/L) ph (s.u.) (MVOLTS/ NH ₈ (MG/L) CONDUCTIVITY 44(6.4 (UMHOS/CM) ANALYST ANALYST
CHLORINE (MG/L) DATE ANALYZED: 93.05	CHLORINE (MG/L) DATE ANALYZED: 으ၖ 🏎 ଓ	CHLORINE (MG/L) DATE ANALYZED:
READING 1: Co.ol mg/L	READING 1: () STANGE	READING 1: 20-1 Mg/L
DIFFERENCE:	DIFFERENCE:	ANALYST
HARDNESS (50 mL SAMPLE) mL TITRANT 2.1 x10 = 21 MG/L Cacco, ANALYST AS	HARDNESS (50 mL SAMPLE) ml titrant 2.4 x10 = 24 mg/l c2co3 ANALYST AB	HARDNESS (50 mL SAMPLE) ml titrant 2.4 x10 = 24 Mg/L caco, ANALYST AB
ALKALINITY (50 mL SAMPLE) ml titrant 2.8 x20 = 56 Mg/L caco, ANALYST AB	ALKALINITY (50 mL SAMPLE) ml titrant 3.8 x20 = 76 Mg/L c=co, Analyst _M8	ALKALINITY (50 mL SAMPLE) ml titrant 3.9 x20 = 78 Mg/L caco, ANALYST AB
TOTAL SUSPENDED SOLIDS (SAMPLE VOLUME: 500 mL) PAPER+SOLIDS 0.1280 GRAMS PAPER WEIGHT 0.1265 GRAMS DIFFERENCE 0.0015 GRAMS MULTIPLIER Z T.S.S. IN MO/L 3.0 ANALYST AB	TOTAL SUSPENDED SOLIDS (SAMPLE VOLUME: 500 mL) PAPER+SOLIDS 0.1307 GRAMS PAPER WEIGHT 0.1305 GRAMS DIFFERENCE 0.0007 GRAMS MULTIPLIER Z T.S.S. IN MG/L 0.4	TOTAL SUSPENDED SOLIDS (SAMPLE VOLUME: 500 mL) PAPER+SOLIDS D.1309 GRAMS PAPER WEIGHT D.1302 GRAMS DIFFERENCE D.0007 GRAMS MULTIPLIER T.S.S. IN MG/L ANALYST ABO

 $^{\bullet}$ = dechlorinated with 7 mg/L sodium thiosulfate per 1 mg/L chlorina (reading 1)

UNLESS OTHERWISE INDICATED, THESE DATA WERE COLLECTED IN ACCORDANCE WITH SOP #'S

6485 Lee Road 54 Auburn, AL 36801 800 662-1584

7 DAY FATHEAD MINNOW TOXICITY TEST (continued)

PROJECT No.:_275<u>-074</u>
BEGINNING DATE:__03 NOV 15_

CLIENT: CLANTON WALNUT CREEK WWTP

TEST SEQUENCE HITTIAL TEST PIRST RETEST **SECOND RETEST**

75.0 IWC.%

TEST	······································	TEST CH	HAMBER		-std	DO	TEMP	FED OR	GANISMS	INITIALS	NOTES AND OBSERVATIONS
HOUR	1	2	3	4	рН	mg/l	ეი_	am	pm	TIME	NOTEONIO ODOLIVATIONO
START	15	15	15	15	7,28	8.0	25.0		140a	nua	All Normal
24	18	15	15	کا	1.52	4:2.9	15° K.	ogal ²	1609	المو المو	All noracul
48	13	15	15	15	1:27		25.8	B)44G	الاعم	& 1/00	All was
72	13	15	14	45	7.32.51	3,7,0	15.0	0804	1603,	¥ 1/00	I won the
96	13	15	إنر	(5	7:32		25° 5 3	eged	1600	B-10-	Alm
120	13	15	14	V S	7.4.50		25.28	A 2 DE	KS)?	\$ 1100	All
144	13	।ड	ιų	13	243.57	1	25.25	ANN AMERICA	1610 AB	الم	oh
168	13	15	14	15	7.53	7.1	250			81100	

100% EFFLUENT DAYS 5 6 7 2 3 1 3.94 7.86 7.84 рΗ 7.34 7.69 7.83 7.79



6485 Lee Road 54 Auburn, AL 36801 800 662-1584

 3 BROOD CERIODAPHNIA TOXICITY TEST (continued)

TEST SEQUENCE
INITIAL TEST
FIRST RETEST
SECOND RETEST

**1 = ALIVE 0 = DEAD

** 1/1 = 1 ADULT, 1 NEONATE

** M = MISSING

75.0 % I.W.C

TEST				TE	ST CH	AMBER	**				LIVE		00	TEMP	FED	SOLUTIONS	INITIALS	NOTES AND
HOUR	1	2	3	4	5	6	7	8	9	10	ADULTS	pH	mg/l	0Ĉ	ORGANISMS	RENEWED	TIME	OBSERVATIONS
START	1	. 1	1	1	1	1	1	1	1	1	10	7.30	8,0	25.0	YES		23,200	All Normal
24	١	١	١		\	1	l	\		١	10	1.2262	84.1	15 E-	/	1	لاملهاج	de-
48	l	1	١	١	1	1	\	١	\	1	9	1.5.72	899	15 S		<i>\</i>	الموال الرعا	pu ~
72	45	43	14	14	1/3	14	43	13	٤(۲	¥	9	750		250	1.	V	الاسم	nother
96	18	') ५	18	١	47	49	47	18) (18	9	137.1	21/8	18.5	7	/	Milmon	Aunda
120	(1	1	4	1	1	1	1	1		10	154.13	1.1	5/53	/	1	Bres	Alleman
144	1/12	٤٦٠)	713	70	1/16	1/2	114	1	1/19	<u>')اء</u>	10	2:52	718	150			M Love	BALL
168															,			
192																		
TOTAL NEONATES	25	15	27	ιų	26	25	24	23	27	24								

X 2 23.0

100% EFFLUENT

DAYS	1	2	3	4	5	6	7
ρН	7.34	7.69	7.83	7,79	7,84	7,86	7,24

NOTES AND OB	SERVAT	TIONS			
*					
r			•	•	



STUDY: NPDES

CLIENT: CITY OF CLANTON SITE: CLANTON WWTP PERMIT#: AL0054631

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055

	AUDUKN, AL 30030			
	(334) 745-0055			
MATRIX: (circle	one) LIQUID SOLID	,		
SAMPLE	7, 79	DATE	TIME	PERSON
LAB USE	ANALYSIS, MEASUREMENT	COLLECTED	COLLECTED	COLLECTING
ONLY				
20116	TOX: PRESERVED 4°C	11 2	7 2 4	
128466	FLOW: 1, 640 452 140	11-2-15	7. 30 AM	a Packell
	128466			
WERE SAMPLE	S PLACED ON ICE/IN REFRIGERATOR II	MMEDIATELY AFTER	SAMPLING YES	NO
	COMPOSITE SAMPLE(S):			
	OF FIRST SUBSAMPLE: 11-1-15 7:3			
	OF LAST SUBSAMPLE: 11-2-15 7:3	>A-/1		
3. FREQUENCY OF	SUBSAMPLE COLLECTIONS 60	MINUTES		
4. APPROXIMATE Q	UANITY OF SUBSAMPLES: 250	circle one (mls, dunces, gallons)		
				COLUMNIE
CAMPLE CITATE	OF CUSTORY!			COURIER
SAMPLE CHAIN	OF CUSTODY			YES NO
SAMPLE CHAIN		DATE/I	TIME: 11/2/	YES NO
	BY: X Money	DATE/	TIME: ///2//	YES NO
TRANSFERRED	BY: X Money	DATE/	TIME:	YES NO
TRANSFERRED	BY: X Molecular Market	DATE/		YES NO
TRANSFERRED RECEIVED BY:	BY: X BY: X	DATE/	TIME:	YES NO (5 130) -
TRANSFERRED RECEIVED BY: TRANSFERRED	BY: X BY: X	DATE/	TIME: <u>2</u> 45VIS	YES NO (5 130) -
TRANSFERRED RECEIVED BY: TRANSFERRED	BY: X BY: X	DATE/	TIME: 2/501S TIME: 2/501S	YES NO (5 130) -
TRANSFERRED RECEIVED BY: TRANSFERRED RECEIVED BY:	BY: X BY: X PLEASE DO NOT V	DATE/I	TIME: 2/501S TIME: 2/501S	YES NO (5 130) -
TRANSFERRED RECEIVED BY: TRANSFERRED RECEIVED BY:	BY: X BY: X PLEASE DO NOT V SAMPLES WHEN REC'D BY LAB: 0, 2 °C	DATE/I DATE/I DATE/I VRITE BELOW THIS LI	TIME:	YES NO (5 130) -
TRANSFERRED RECEIVED BY: TRANSFERRED RECEIVED BY:	BY: X BY: X PLEASE DO NOT V SAMPLES WHEN REC'D BY LAB: 0, 2 °C	DATE/I	TIME:	YES NO (5 130) -
TRANSFERRED RECEIVED BY: TRANSFERRED RECEIVED BY:	BY: X BY: X PLEASE DO NOT V SAMPLES WHEN REC'D BY LAB: 0, 2 °C	DATE/I DATE/I DATE/I VRITE BELOW THIS LI	TIME:	YES NO (5 130) -
TRANSFERRED RECEIVED BY: TRANSFERRED RECEIVED BY: TEMPERATURE OF SAMPLES STORED IS SHIPPED BY:	BY: X BY: X PLEASE DO NOT V SAMPLES WHEN REC'D BY LAB: 0, 2 °C IN REFRIGERATOR EM: 267 TRACKING #:	DATE/I DATE/I DATE/I VRITE BELOW THIS LI	TIME:	YES NO (5 130) -
TRANSFERRED RECEIVED BY: TRANSFERRED RECEIVED BY: TEMPERATURE OF: SAMPLES STORED I	BY: X BY: X PLEASE DO NOT V SAMPLES WHEN REC'D BY LAB: 0, 2 °C IN REFRIGERATOR EM: 267 TRACKING #:	DATE/I DATE/I DATE/I VRITE BELOW THIS LI	TIME:	YES NO (5 130) -



STUDY: NPDES

CLIENT: CITY OF CLANTON SITE: CLANTON WWTP PERMIT#: AL0054631

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 **AUBURN, AL 36830**

(334) 745-0055
MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	COLLECTED	TIME	PERSON COLLECTING
1285/3	TOX: PRESERVED 4°C FLOW: 1, 26 & MG	11-4-15	7:30 MM	D. Puckett

WERE SAMPLES PLACED ON ICE/IN REFRIGERATOR IMMEDIATELY AFTER SAMPLING (YES) NO INFORMATION ON COMPOSITE SAMPLE(S): 1. DATE AND TIME OF FIRST SUBSAMPLE: 11-3-15 7:30 Ats 2. DATE AND TIME OF LAST SUBSAMPLE: 11-4-15 7' 30 ATM 60 3. FREQUENCY OF SUBSAMPLE COLLECTIONS __ MINUTES (mls, junces, gallons) 4. APPROXIMATE QUANITY OF SUBSAMPLES: 250 COURIER SAMPLE CHAIN OF CUSTOD YES (NO) DATE/TIME: 11-4-15- 1300 TRANSFERRED BY: X RECEIVED BY: X DATE/TIME: DATE/TIME: 4/100 B TRANSFERRED BY: X DATE/TIME: 4/16015 1500 RECEIVED BY: X PLEASE DO NOT WRITE BELOW THIS LINE TEMPERATURE OF SAMPLES WHEN REC'D BY LAB: THERMOMETER ID#: 457 SAMPLES STORED IN REFRIGERATOR ID# SHIPPED BY: TRACKING #: AECT BOTTLES: YES NO



STUDY: NPDES

CLIENT: CITY OF CLANTON SITE: CLANTON WWTP PERMIT#: AL0054631

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 **AUBURN, AL 36830** (334) 745-0055

MATRIX: (circle	one)(LIQUID) SOLID			
SAMPLEN LAB USB ONLY	ANALYSIS, MEASUREMENT	COLLECTED	-COLTECTED LIMB	CONTRECTING
128525	TOX: PRESERVED 4°C FLOW: 1,255 Mass	11-6-15	7:30 AM	D. Puchets
WERE SAMPLES	PLACED ON ICE/IN REFRIGERATOR IMP	MEDIATELY AFTER	SAMPLING YES	ж
INFORMATION ON C	COMPOSITE SAMPLE(S):			
I. DATE AND TIME (OF FIRST SUBSAMPLE: 11-5-15 7:3	> AM		
		S AM		
3. FREQUENCY OF S	UBSAMPLE COLLECTIONS 60	MINUTES		
4. APPROXIMATE QU	JANITY OF SUBSAMPLES: 250	(mls)ounces (gallons)		
SAMPLE CHAIN	OF CUSTODY 7			COURIER YES NO
TRANSFERRED I	BY: X	DATE/	TIME: 11-6-1	5 4
RECEIVED BY:	X	DATE/	ГІМЕ:	
TRANSFERRED I	BY: X	DATE/	TIME: 600/15	
RECEIVED BY: X	· //CM	DATE/I	TME: BROIS	13/5 X
	PLEASE DO NOT WR	ITE BELOW THIS L	INE	
TEMPERATURE OF S	AMPLES WHEN REC'D BY LAB: 03 C		•	
SAMPLES STORED D	REFRIGERATOR ID#: 267 THE	ERMOMETER ID#: 45	/	
SHIPPED BY:	TRACKING#:	18	-	
AECT BOTTLES: FE	≫ NO			

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT TOXICITY TEST REPORT SUMMARY



1. GENE																	
NPDES			AL005		[SN	l:	001			COU	NTY:	Ch	ilton			
Permite			of Clanto							,							
Facility I				eek WWTF													
Agent su				. Anthony	Kelly	prin (1889 - N. 18						transport					
			y Test(s):		ırn Envi	ron	mental	Cor	sulti	ng an	d Testi	ng					
Months			ovembe								,						
				Required fo		nth			embe								
Schedul			Yes _	<u>X</u>	No _		A	ccel		Test		Yes			No	_	X
Accelera					of				For	ralled	Sched	uled Tes			4		
Test Typ	e Kequi	rea:		48-Hr Acut				X			Chan			Defini			
	Toot O	manian		erm Chroni hales prom		iing):		Toct C)reoni		erm Chi			live		
Com		THE RESERVE AND ADDRESS.				-	C1		-			riodaphr				<u> </u>	
Sam No.	18	D/YY	Start	Date/Time Ended	3		Conti Valid		Pr .	e/Time /DD/Y		art Dat		ime		1	ontrol 'alid
1			45405-		4250									40.4	1001	-	
	11/01	1/10	1518hr	11/08/16	1359	nr	yes	;	11/	01/16	1400	nr 11	/07/	76 74	100hr	}	/es
	-																
2A.	SLIMANA	APV O	DECIII	TS FOR S	CDEENI	NIC	TECT		<u> </u>							<u></u>	
۲۰.	OCIVITAL	T O	KESUL	IS FUR S	CKEEN	NG	IESI.	T	A A I				-				
Test	Eff.	-	(1)	·			(2)	res	t Nun	iper	(0)				(4)		——— _П
Org.	Conc.	Sur		Cro	Sur		(2)	C		Cur	(3)	T 6	-	0	(4)		
P.p.	75%	Pas			Sui	+-'	Rep	Gro	' -	Sur	Rep	Gro	+	Sur	Rep		Gro
C.d.	75%	Pas			-	+						-	+				
2B.		The second second		TS FOR D	FEINITI	VE	TEST:										
Te		1110		est Solutio				1			LC50	NOE	-	. Nic	t Deter		
	.51		<u> </u>	531 30/4/10	Conce	11112	10011 (70	2/	T		LC30	INOE		NC	Deter	1111116	30
								•									
<u> </u>	LAROR	ATOR	VANALV	'SIS OF UN	ורטו נודה	ח	SAMPLE	-C·	<u> </u>								
Sample		DD5	TSS	NH3						1.1.	T	TRC	-	TDC		~	7
ID	1	g/L	mg/L	mg/l		p⊢ mg/	1	Al mg			ard g/L	mg/L		TDS mg/l	1	Con	- 11
1		/A	2.0	0.1		7.5		58			3	<0.01	\dashv	N/A	-	265	
2		/A	1.6	0.3	$\overline{}$	7.5		60			5	<0.01		N/A		301	
3		/A	2.4	0.2		7.6		58			6	<0.01	\dashv	N/A		313	
Municipal	Facilitie	s Only											-				الحسا
Sample		ic (µg/L	Cadr	nium (yg/L)	Chror	niur	11 (µg/L)	Co	pper	(ua/L)	Lead	(µg/L)	1	lexav.	Chrom	um (ug/L)
ID		(, 0								11-37		(F 3: -)					73 -/
													+		**		
Sample	Merci	Jry (µg/l) Nicke	⊇! (μg/L)	Silver	lua	/I \	Zir	IC (µg/		Tot (Cyanide	1	Other(s)	\ (ua/L\		
ID	111010) (pg/	-, (110/11	ο, (μg, L)	0	(149)	, ,		i (pgi	-)	(µg/L)	Jy armae	1	Juici(S)	/ (pg/L)		1
											1		\top		· · · · · · · · · · · · · · · · · · ·		
Chemica	l Analys	is Perfo	ormed By	(LAB):	ACT					- madiz	Marie San						
			-														
Instantan			(1)		GPI												
Total 24-	Hour Fig	w:	(1)	0.992	MG	D		(2)	0	.999	MG	iD		(3)	0.813	\	/IGD
Common	in.																
Commen	is.																
ceritify unde	er penalty	of law tha	at this docu	ment and all a	attachmen	ts we	ere oreoa	red ur	ider m	v directi	on or suc	ervision in	acc	ordance	with a sv	stem	
lesigned to a	assure tha	t qualifie	d personne	l properly gath	ner and ev	alua	te the info	rmati	on sub	mitted.	Based o	n my inqui	ry of	the perso	on or per	sons	
nanage the s elief, true, a	system, or iccurate, a	inose pe nd comn	ersons direi lete, I am :	ctly responsib aware that the	re for gather	enng rifica) the inton ant penalti	matio ies foi	n, the i r subm	ntormat itting fa	ion subm Ise inform	inted is, to	the l udina	est of my	y knowle sibility of	age a	nd ind
nprisonmen	t for know	ng violat	ions.		9									, puo			=
GNATURE	OF RESP	ONSIBL	E OFFICIA	L:						DATE	:						

ADEM 465 8-02

Facility Nam	e: Walnu	ıt Creek	WWTP	NP	DES#:	AL0054	1631 [OSN: 001	I D	ate:	11/01/16
4. SAMF	PLE COLLE	CTION:									
Split Sample	s: N/A	X	Yes		(explain)						
Samples Co	llected as S	pecified i	in the NPDES P	ermit:	Yes	X	No	(explain)			
Danisian M			10/-1-		- a l			Donies Flor	41'	2.25	(MCD)
Receiving W	ater:				ek	-					(MGD)
Sample ID	MM/DD/Y		ple(s) Collected IM - MM/D		ннмм		íval o (^o C)		Used i D/YY		DD/YY
CN-75-1	10/30/16	0800			0730hr		.0	11/01/		- 11/02	2/16
CN-75-2 CN-75-3	11/01/16 11/03/16	0800			0730hr 0730hr		.0	11/03/ 11/05/		- 11/04 - 11/08	1/16 3/16
3.1700	11700710	0000	11/04/		0.00	- 4		111001		11700	,,,,,
5. CONT	rol/dil	W MOITL	/ATER:								
Туре	Pre	pared DD/YY	Beg	in Use			In	itial Water C	hemist	ries	
	IVIIVI/	י יוטט	MIMI	DD/YY		Hard.	Alk.	pH		Cond.	@ ℃
MHRW	10/	27/16	11/	01/16		89	56	7.73		212.8	25
							<u> </u>				
6. TOXIO	CITY TEST	INFORM	IATION:								
Test		anism		anism	A CONTRACTOR OF THE CONTRACTOR		Test	Solution Co.	ncentra	ations (%)	
Species		ige Hours		urce		7.00					
Pp Cd		Hours	Auburn En	vironn	nental	75% 75%					
		110013	Aubum En	VII () 1111	- Incirca	1 1070					
Test		Test V	/essel	1	Vessel		Solution	Org.	/ Test	Re	plicates
Species Pp		Class	pe Beaker	V	ol. (mL)	_ \ \ \ \	ol. (mL)		ssel	pe	er Conc.
Cd		Plastic		ļ	30		250 15		15 1		10
		1 10011	СССР						•		10
Test Sp	ecies	Temp	. Range (°C)	D.O	. Range (mg/L)	pH R	ange (mg/L)	L	ight Inten	· - u
Pr)	24	.5 - 25.0		2.7 - 8.3	3	7.	06 – 7.59	_	(ft-c	
Co		<u> </u>	1.5 – 25.0		7.5 – 8.0		3	53 – 7.79	_	98.	4
7. FEED	ING:										
Not Fed:		F	ed Daily:	<u> </u>	Fe	ed Irregu	lar:	(Ex	plain in	comment	ts below)
Brine Shrimp	: F	ed 0	0.15 mL Sus Larvae		on of New	/ly Hatch	ed	2	Tir	mes Daily.	
YCT:			0.1 mL Su	spensio	on Contai			1.9		g/L TSS D	
Algae:	F	ed	0.1 mL Su	spensio	on Contai	ning		3.5 X 10	D' Al	gal Cells/n	nL Daily.
COMMENTS	Tempe	rature ra	nge obtained fro	om min	/max ther	momete	r.				

Facility	, Nam	e: Walnut	Creek \	W TP	NPDES #:	AL00	54631	DSN:	001	Date:	11/01/16
8.	REFE	RENCE TO	XICANT	TESTS:							
Toxica	ınt:	Sodium Ch	loride		Source:	Fisher Scientific			CAS	# :	7647-14-5
Solutio	on con	centration u	nit:	mg/L	g/L	X	%	_	other (spe	ecify):	
Tes	t	Test Dat	е	Control		Ref	erence Te		on Concent	rations	
Pp		10/18/16		MHRW	1.0	1.5	2.0	2.5	3.0	-	
Cd		10/18/16)	MHRW	0.5	0.75	1.0	1.25	1.5	<u> </u>	
Test Pp Cd		Results	92	% Confidence I	nterval	Upper	and Lowe	er CUSU	M Chart Co	introl	Number
9. A 9. B	TEST CONDITION VARIABILITY: A. Deviations From Standard Test Conditions:										
10.	Attach Physic Toxic	n copies of C cal, Chemica ity Tests Dat	hain-of-(al, and Bi a.	ACHMENTS: Custody Forms, ological Measu	rements for a	All Tests.	Include	Suspend	ed, Interrup		

-	Walnut Cree	k WWTP	NPDES #:	ALC	054631	DSN:	001	Date:	11/01/16	
11.C. CHRONI	C SCREENING	G TOXICITY TES	STS RESULTS	(Freshv	vater):					
	Used to Begin	aphnia dubia the Test Within males Produce T			.ge ?:	Yes Yes		No No		
SURVIVAL CHRONIC TOX	ICITY INDICA	TED:	YES		NO	X				
NO SURVIVAL	STATISTICAL	ANALYSIS NEC	ESSARY:	X						
CONTROL(%)	24h 100	48h 100 E	ND 100	EFFLUE	NT(%)	24h	100 48	h 100	END 1	100
Fishers Exact T	est:	A =	B =			a = _	-	b	=	
REPRODUCTIO	(Averag	ge Neonates/Fen	nale)					-		
CHRONIC TOX			YES		NO	Х	_			
NO REPRODUC	CTION STATIS	STICAL ANALYS	IS NECESSAF	RY:	X					
CONTROL:	18.2	EFF	LUENT:	21.4						
Normally Distrib	uted:	YES		NO						
Test Statistic:		Critic	al Value:	0.868		_ (Parametri	ic)		
Equal variance:			Unequal va	riance:						
F Statistic:			Cri	tical F:	5.35					
t - Test Statistic		t	- Test Critical	Value:	1.735					
Sample Rank S	um:	# Reps	i.:	-	Critical Ra	nk Sum	1:	(Nor	ı – Parame	tric)
COMMENTS:				~						
TEST ORGANIS	•	nales promelas								
SURVIVAL CHRONIC TOX	ICITY INDICA	TED:	YES		NO	X				
SURVIVAL CHRONIC TOX NO SURVIVAL	ICITY INDICAT	TED: ANALYSIS NEC	ESSARY:	x					510 4	
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%)	STATISTICAL 24h 100	TED: ANALYSIS NEC 48h 98.3 E	ESSARY:	EFFLUE		X 24h	100 48	h 100	END 1	00
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib	STATISTICAL 24h 100	TED: ANALYSIS NEC 48h 98.3 E YES	ESSARY: ND 98.3	EFFLUE		24h 			END 1	00
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic:	STATISTICAL 24h 100	TED: ANALYSIS NEC 48h 98.3 E YES	ESSARY: ND 98.3	NO 0.749	NT(%) 2	24h 	48 		END 1	00
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance:	STATISTICAL 24h 100	TED: ANALYSIS NEC 48h 98.3 E YES	ESSARY: IND 98.3 al Value: Unequal va	NO 0.749 riance:	NT(%) 2	24h 			END 1	00
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic:	STATISTICAL 24h 100 uted:	TED: ANALYSIS NEC 48h 98.3 E YES Critica	ESSARY: ND 98.3 al Value: Unequal va	NO 0.749 riance: tical F:	x 29.5	24h 			END 1	00
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic:	STATISTICAL 24h 100 uted:	TED: ANALYSIS NEC 48h 98.3 E YES Critica	ESSARY: IND 98.3 al Value: Unequal val Cri - Test Critical	NO 0.749 riance: tical F: Value:	X 29.5 1.94	24h(Parametri	c)		
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Si	STATISTICAL 24h 100 uted:	TED: ANALYSIS NEC 48h 98.3 E YES Critica	ESSARY: IND 98.3 al Value: Unequal val Cri - Test Critical	NO 0.749 riance: tical F: Value:	x 29.5	24h(Parametri	c)	END 1	
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Si	STATISTICAL 24h 100 uted: um: Mean Dry Weig	ANALYSIS NEC	ESSARY: IND 98.3 al Value: Unequal val Cri - Test Critical	NO 0.749 riance: tical F: Value:	X 29.5 1.94	24h (Parametri	c)		
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Statistic: GROWTH (CHRONIC TOX	STATISTICAL 24h 100 uted: um: Mean Dry Weiglichty Indicat	ANALYSIS NEC	ESSARY: IND 98.3 al Value: Unequal val Cri - Test Critical .: 4 YES	NO 0.749 riance: tical F: Value:	X 29.5 1.94 Critical Ra	24h (Parametri	c)		
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Statistic: GROWTH (CHRONIC TOX	STATISTICAL 24h 100 uted: um: Mean Dry Weiglichty Indicat	ANALYSIS NEC	ESSARY: IND 98.3 IND 98.	NO 0.749 riance: tical F: Value:	X 29.5 1.94 Critical Ra	24h (Parametri	c)		
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Si GROWTH (CHRONIC TOX NO GROWTH SI	STATISTICAL 24h 100 uted: Mean Dry Weight CITY INDICAL TATISTICAL A 0.52267	ANALYSIS NEC	ESSARY: IND 98.3 IND 98.	NO 0.749 riance: tical F: Value:	X 29.5 1.94 Critical Ra	24h (Parametri	c)		
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Si GROWTH CHRONIC TOX NO GROWTH SI CONTROL:	STATISTICAL 24h 100 uted: Mean Dry Weight CITY INDICAL TATISTICAL A 0.52267	TED: ANALYSIS NEC 48h 98.3 E YES Critica t # Reps ght - mg) TED: ANALYSIS NECE YES	ESSARY: IND 98.3 IND 98.	NO 0.749 riance: tical F: Value:	X 29.5 1.94 Critical Ra	24h(i	Parametri	c) (Nor		
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Si GROWTH (CHRONIC TOX NO GROWTH SI CONTROL: Normally Distrib	STATISTICAL 24h 100 uted: Mean Dry Weight CITY INDICAL TATISTICAL A 0.52267	TED: ANALYSIS NEC 48h 98.3 E YES Critica t # Reps ght - mg) TED: ANALYSIS NECE YES	ESSARY: IND 98.3 All Value: Unequal value: - Test Critical - 4 YES ESSARY: ELUENT:	NO 0.749 riance: tical F: Value: X 0.56900 NO 0.749	X 29.5 1.94 Critical Ra	24h(i	Parametri	c) (Nor		
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Stample Ra	STATISTICAL 24h 100 uted: Mean Dry Weight CITY INDICAL TATISTICAL A 0.52267	TED: ANALYSIS NEC 48h 98.3 E YES Critica t # Reps ght - mg) TED: ANALYSIS NECE YES	ESSARY: IND 98.3 IND 98.3	NO 0.749 riance: tical F: Value: X 0.56900 NO 0.749	X 29.5 1.94 Critical Ra	24h(i	Parametri	c) (Nor		
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Si GROWTH CHRONIC TOX NO GROWTH SI CONTROL: Normally Distrib Test Statistic: Equal variance:	STATISTICAL 24h 100 uted: Um: Wean Dry Weight CITY INDICAT STATISTICAL A 0.52267 uted:	ANALYSIS NEC	ESSARY: IND 98.3 IND 98.3	NO 0.749 riance: Value: X 0.56900 NO 0.749 riance: tical F:	X 29.5 1.94 Critical Ra	24h(i	Parametri	c) (Nor		
SURVIVAL CHRONIC TOX NO SURVIVAL CONTROL(%) Normally Distrib Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Si GROWTH (CHRONIC TOX NO GROWTH SI CONTROL: Normally Distrib Test Statistic: Equal variance: F Statistic:	STATISTICAL 24h 100 uted: Uman Dry Weight CITY INDICATION INDICAT	ANALYSIS NEC	ESSARY: IND 98.3 al Value: Unequal value: - Test Critical - YES ESSARY: - LUENT: - Unequal value: - Test Critical	NO 0.749 riance: tical F: Value: X 0.56900 NO 0.749 riance: tical F: Value: Value:	X 29.5 1.94 Critical Ra NO	24h(Parametri	c) (Nor		tric)



STUDY: NPDES

CLIENT: CITY OF CLANTON SITE: CLANTON WWTP PERMIT#: AL0054631

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055

(334) 745-0055 MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	COLLECTED	PERSON COLLECTING
13/733	TOX: PRESERVED 4°C FLOW: 8. 922 HGS	10-31-16	7.30AM	Tin

ONLY			1	
13/733	TOX: PRESERVED 4°C FLOW: 0. 222 PGD	10-31-16	7.30AM	Tin
WERE SAMPLES	PLACED ON ICE/IN REFRIGERATOR	IMMEDIATELY AFTER	SAMPLING YES)NO
INFORMATION ON C	COMPOSITE SAMPLE(S):			
1. DATE AND TIME O	OF FIRST SUBSAMPLE: 10-16 8:	D		
2. DATE AND TIME (OF LAST SUBSAMPLE: 10-31-16 73	•		
3. FREQUENCY OF S	UBSAMPLE COLLECTIONS 65	MINUTES		
4. APPROXIMATE QU	JANITY OF SUBSAMPLES: 400	(mls ounces, galions)		
SAMPLE CHAIN	of custody!			COURIER YES NO
TRANSFERRED	BY: X May hale	DATE	TIME: 10/31/1	16 1311
RECEIVED BY:	x is	DATE	TIME:	
TRANSFERRED	BY: X	DATE	TIME: 310CT B	(1) 8
RECEIVED BY: X	1 ST	DATE/	TIME: 3 Conthe	5330
	PLEASE DO NOT	WRITE BELOW THIS I	INE	
TEMPERATURE OF S	AMPLES WHEN REC'D BY LAB: 4	c		
	REFRIGERATOR ID#: 267		-1	
	TRACKING#: AY			
AECT BOTTLES: VE		0.0000000000000000000000000000000000000		
U				



STUDY: NPDES

CLIENT. CITY OF CLANTON SITE: CLANTON WWTP PERMIT#: AL0054631

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055

MATRIX: (circle one) CIQUID SOLID

LYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
SERVED 4ºC ኔ-ኒፃን ሥሩን	11-2-16	7.30 Am	D. Pachit
N ICE/IN REFRIGERATOR IMM	MEDIATELY AFTER	SAMPLING YES	NO
MPLE(S):			
LLECTIONS 60	MINUTES		
BSAMPLES: 450	(mls, ounces, gallons)		
η _{Y:}			COURIER YES NO
In pour	DATE/Л	IME: 1-2-16	1310
15'		,	
	ДАТЕЛТ	TME: 2,00	10 X
1º CHAD	DATE/T	IME: 2 NOTE	330 4
PLEASE DO NOT WR	ITE BELOW THIS LI	NE	
N REC'D BY LAB: 24 °C			
· 💉	RMOMETER ID#: 45	/ 	
TRACKING #:		_	
	PLEASE DO NOT WR	DATE/T PLEASE DO NOT WRITE BELOW THIS LITTER SOLUTIONS PLEASE DO NOT WRITE BELOW THIS LITTER SOLUTIONS AND ATE/TO DATE/TO DA	DATE/TIME: DATE/T



STUDY: NPDES

CLIENT: CITY OF CLANTON SITE: CLANTON WWTP PERMIT#: AL0054631

TRANSFER TO: AUBURN ENVIRONMENTAL

6485 LEE ROAD 54 AUBURN, AL 36830 (334) 745-0055

(334) 745-0055 MATRIX: (circle one) LIQUID SOLID

SAMPLE# LAB USE ONLY	ANALYSIS, MEASUREMENT	DATE COLLECTED	TIME COLLECTED	PERSON COLLECTING
13/200	TOX: PRESERVED 4°C FLOW: ちょうしょう れよる	11-4-16	7. 30 AM	D. Puchil
WERE SAMPLES	PLACED ON ICE/IN REFRIGERATOR IM!	MEDIATELY AFTER	sampling yes	Эю
D. (COD) L. TION ON CO	OLIDORED CLUB, DIE			

WERE SAMPLES PLACED ON ICE/IN REFRIGERATOR IMMEDIATELY	AFTER SAMPLING YES NO		
INFORMATION ON COMPOSITE SAMPLE(S):			
1. DATE AND TIME OF FIRST SUBSAMPLE: 11-3-16 850			
2. DATE AND TIME OF LAST SUBSAMPLE: 11-4-11 3:30			
3. FREQUENCY OF SUBSAMPLE COLLECTIONS 60 MINUTES			
4. APPROXIMATE QUANITY OF SUBSAMPLES: 465 (mb) ounces, 1	gallons)		
		COUR	IER
SAMPLE CHAIN OF CUSTODY:	11-4-16	YES	NO
TRANSFERRED BY: Knowy Rechell	DATE/TIME: 12:40 Pm		1
RECEIVED BY: X	DATE/TIME:		
TRANSFERRED BY: X	DATE/TIME: 4/100/16 1240		X
RECEIVED BY: X	DATE/TIME: 4N=116 3/5	<u>-</u>	W.
PLEASE DO NOT WRITE BELOV	Y THIS LINE		
TEMPERATURE OF SAMPLES WHEN REC'D BY LAB:	Ti1		
SAMPLES STORED IN REFRIGERATOR ID#: 267 THERMOMETER	_{ID#:} 451		
SHIPPED BY: TRACKING #:			
AECT BOTTLES: YPE NO			



WATER CHEMISTRY DATA SHEET

STUDY NUMBER:
DILUTION LOT#: 697

SAMPLE ID:	SAMPLE ID: DATE COLLECTED: DATE ANALYZED:	SAMPLE ID: DATE COLLECTED: DATE ANALYZED:
D.O. (MG/L) pH (S.U.) 7.73 AB (MVOLTS/ NH MG/L) CONDUCTIVITYZ12.8 AB (MHOS/CM)	ANALYST D.O. (MG/L) pH (S.U.) (MVOLTS/ NH ₅ (MG/L) CONDUCTIVITY (UMHOS/CM)	ANALYST D.O. (MG/L) pH (S.U.) (MVOLTS/ NH ₃ (MG/L) CONDUCTIVITY (UMHOS/CM)
CHLORINE (MG/L)	CHLORINE (MG/L)	CHLORINE (MG/L)
DATE ANALYZED: READING 1: READING 2: DIFFERENCE: ANALYST HARDNESS (50 mL SAMPLE) mL TITRANT 8.9 x10 = 89 mG/L Caco, ANALYST ALKALINITY (50 mL SAMPLE) mL TITRANT 2.8 x20 = 510 mG/L Caco, ANALYST ANALYST ANALYST	DATE ANALYZED: READING 1: READING 2: * DIFFERENCE: ANALYST	DATE ANALYZED: READING 1: READING 2: DIFFERENCE: ANALYST HARDNESS (50 mL SAMPLE) mL TITRANT x10 = MG/L CaCC ANALYST ALKALINITY (50 mL SAMPLE) mL TITRANT x20 = MG/L CaCO ANALYST
TOTAL SUSPENDED SOLIDS (SAMPLE VOLUME: mL) PAPER+SOLIDS GRAMS PAPER WEIGHT GRAMS DIFFERENCE GRAMS MULTIPLIER ANALYST	TOTAL SUSPENDED SOLIDS (SAMPLE VOLUME:	TOTAL SUSPENDED SOLIDS (SAMPLE VOLUME:

* = dechlorinated with 7 mg/L sodium thiosulfate per 1 mg/L chlorine (reading 1)

UNLESS OTHERWISE INDICATED, THESE DATA WERE COLLECTED IN ACCORDANCE WITH SOP #'S

 276
 277
 292
 290

 275
 293
 291
 295



WATER CHEMISTRY DATA SHEET

STUDY NUMBER: Z75-075 DILUTION LOT#: 692

DATE ANALYZED: 4 MUNIC	DATE ANALYZED: 4 AWLL	DATE ANALYZED: 14 MONG
D.O. (MG.L) pH (S.U.) NH ₃ MG.L) CONDUCTIVITY 265.60 (UMHOS/CM) ANALYST ANALYST AB ANALYST AB AB AB	ANALYST D.O. (MG/L) pH (S.U.) RMVOLTS NH ₃ (MG/L) CONDUCTIVITY 301.0 AB (UMHOS CM)	D.O. (MG L) pH (S.U.) REPRESENTATION OF THE CONDUCTIVITY 313.9 ANALYST ANALYST ANALYST ANALYST ANALYST ANALYST ANALYST AB (MYCLTS 174/0.2 AB (UMHOS/CM)
CHLORINE (MGTL)	CHLORINE (MG L)	CHLORINE (MG'L)
DATE ANALYZED: DI North	DATE ANALYZED: 20 P ~ 10	DATE ANALYZED: DS ALL b
READING 1: CO.S\ M4\L READING 2: DIFFERENCE: ANALYST S	READING 1: Z >> \ \ \ READING 2: DIFFERENCE:	READING 1: 25.9 CM/L READING 2: DIFFERENCE: ANALYST 3
HARDNESS (50 mL SAMPLE)	HARDNESS (50 mL SAMPLE)	HARDNESS (50 mL SAMPLE)
ml TITRANT 2.3 x10 = 23 MG/ Caco, ANALYST AB	me titrant 2.5 xic = 25 mg/l coco, ANALYST AB	ml TITRANT $\frac{2.6}{AB}$ x10 = $\frac{26}{AB}$ MG/L C2CC3
ALKALINITY (50 mL SAMPLE) ml titrant 2.9 x20 = 58 Mg.L 0300, ANALYST AB	ALKALINITY (50 mL SAMPLE) mL TITRANT 310 x20 = 40 mg/L caco, ANALYST AB	ALKALINITY (50 ML SAMPLE) ML TITRANT 2.9 x20 = 58 MG/L Caco, ANALYST AB
TOTAL SUSPENDED SOLIDS 1533 (SAMPLE VOLUME: 500 mL) PAPER+SOUDS 6820 GRAMS	TOTAL SUSPENDED SOLIDS 138 (SAMPLE VOLUME: SUSPENDED SOLIDS 138 (SAMPLE VOLUME: SUSPENDED SOLIDS 138 (SAMPLE VOLUME: SUSPENDED SOLIDS 100 SOLID	TOTAL SUSPENDED SOLIDS 612 (SAMPLE VOLUME: SOL ML) PAPER+SOLIDS 0. COLORAMS
PAPER WEIGHT C. OSLO GRAMS DIFFERENCE 1.0 GRAMS	PAPER WEIGHT C. CG24 GRAMS	PAPER WEIGHT 0.09 GRAMS
DIFFERENCE CHAMS MULTIPLIER 2	DIFFERENCE CRAMS MULTIPLIER 2	DIFFERENCE CRAMS MULTIPLIER 2
T.S.S. IN MG/L 2 0	T.S.S. IN MG L (. (b)	TS.S. IN MG, L Z. L
ANALYST CEVA	ANALYST CELA	ANALYST CE M

" = dechlorinated with 7 mg/L sodium thiosulfate per 1 mg/L chlorine (reading 1)

UNLESS OTHERWISE INDICATED, THESE DATA WERE COLLECTED IN ACCORDANCE WITH SOP #'S

276 275

277 292 293 291

290 295



6485 Lee Road 54 Auburn, AL 36801 800 662-1584

7 DAY FATHEAD MINNOW TOXICITY TEST

Q.C. TEST NO .: PHCH CE TEST CONTAINER: 600 ml beaker

TEST VOLUME: 250 ml

DILUTION WATER: MHRW AGE OF TEST ORGANISMS: <24HRS SOURCE: AQUATOX

TEST TEMP. RANGE: 24.5-25-プレ

BEGINNING DATE: OL NOVI TIME: 1518
ENDING DATE: OK NOVI TIME: 1359

CONTROL TEST SYSTEM

TEST		TEST CH	HAMBER		nU.	DO	TEMP	FED ORG	GANISMS	INITIALS	NOTES AND OBSERVATIONS
HOUR	1	2	3	4	pН	mg/l	°C	am	pm	TIME	NOTES AND OBSERVATIONS
START	15	15	15	15	7.36	7.9	25.0		1621	1513	All Normal
24	15	15	15	15	12/36	3.8	25.0	रस्य १सम्ब	1625	1414	MI WIMO
48	14	15	15	15	7.24	4.0	25.0	Liev	1605	1400	All wine
72	14	15	15	15	7.71	5.04.6	135.0	1933	11/2000	1414	N/1 NOINE
96	14	15	15	15	7.14.56	4.2	25:0	08mg	1600	1452 CEM	All Namal
120	14	15	15	15	7.13	3411	25.0	J3	187	1508 CXX	Allwino
144	14	15	15	15	720,72	3.3	25.0	0830 Gener	1610	12000	An rome
168	14	15	15	15	7.05	2.8	2510			1359	All rome

THESE DATA WERE COLLECTED IN ACCORDANCE WITH SOP_T210. INITIALS/DATE: め ぱんしん



6485 Lee Road 54 Auburn, AL 36801 800 662-1584

7 DAY FATHEAD MINNOW TOXICITY TEST (continued)

PROJECT No.:_275-075__

BEGINNING DATE: __01 NOV 16_

CLIENT: CLANTON WWTP

TEST SEQUENCE
INITIAL TEST
FIRST RETEST
SECOND RETEST

75.0 IWC %

TEST		TEST CH	HAMBER		pН	DO	TEMP	FED ORG	SANISMS	INITIALS	NOTES AND OBSERVATIONS
HOUR	1	2	3	4) PH	mg/l	°C	am	pm	TIME	NOTES AND OBSERVATIONS
START	15	15	15	15	7.52	8.3	25.0		1621	1515	All Normal
24	15	15	15	15	7352	4.57.3	25,0	0330	1625	1418 UEV	PILLERO
48	15	15	15	15	718	3347	75.0	0620 0620	1605 UKA	1400	Allomos
72	15	15	15	15	7.13	3.021	25.0	1833	1650	1414	All Normal
96	15	15	15	15	714 754	3.4.9	25350	ć	C8-77 (C	21452 VOX	All Asrmal
120	15	15	15	15	7.00	2.381	2500	0832	1757	1505 Litha	Allromia
144	15	15	15	15	7.15.9	2982	25,0	UEY UEY	1010	1200	Minon
168	15	15	15	15	7.06	23	25.0			1351 CEVA	All romino

100% EFFLUENT

DAYS	於 1	2	3	4	5	6	7
pН	B17.58	7.72	7.57	7.52	779	7.83	7.71

DIMONIO

DRY WEIGHT DETERMINATION FOR FATHEAD MINNOW LARVAL SURVIVAL AND GROWTH TEST

Client Clarte a Walnut cook worth

Project#: 275-075

Test Start Date: 011116

Weighing Start Date/Time/Temp: 08 MJL6/14/1050C
Weighing End Date/Time/Temp: 09 NJL6/1604/1010C
Analyst: GEN

Concentration	Replicate number	Height of bont	B Dry weight of boat and larvee (g)	G-A Total dry weight of larvae (g)	C Number of larvae	((B-A)/C)*1000) Mean dry weight of tarvae (MJ)	Remarks
	. 1	1.29304	1,29995	0.00691	14	0.46067	
CONTROL	2	1.29627	1.30377	0.0075	15	0.5000	
	3	1.28453	1.29335	288001	15	8.59000	
		1.29253	1,30063	0.00810	is	O. 24000	X=0.52267
	1	1.30714	131477	0.00763	15	0.50867	
I.W.C.	2	1.30096	1,30907	0.00811	15	0.54067	
75.0x	3	1.28895	1.29849	0.00954	15	0.63600	
	4	1.28895	1.29771	0.00836	15	0.59067	x=0.56900

ROTES/OHSERVATIONS:

3-BROOD CERIODAPHNIA TOXICITY TEST

PAGE 1 OF 2

Q.C. Test No.:	CDC467
Test Container:	
Test Volume: .	1 CMC
Dilution Water:	MARIE
Age of Test Orga	

Source:	plet	
Tost Ton	perature Range:	24.5-25-52
Y.C.T. LO	OT NUMBER:	
ALGAE L	OT #:	671

Ending Date: Olabella Time: I the Time: I

** M = MISSING OR LOST

CONTROL TEST CHAMBERS

TEST DAY	1	2	3	CONT.	AINER I	a Tunne	7	B I	9	10	TOTAL NUMBER	pH	D.O. (mg/l)	ТЕМР. (°C)	FED CARINADAO	SOLUTIONS	INITIALS/TIME	NOTES AND ENCITAVREEBO
TRATE	l	١	١	١	1	1	1	_\	l	_\	10	2,59	80	25-0			to Illes	All
24	١	1		\			_1_	l	_1_	\		1.754	5380	15.0 25.0	/	/	14 14 004	PIL
48	١					1	l	l	l	_	(0	2.6.60	مرهاده	25.00	_/		14 (400	All
72	1)	1	١	l	1	7	١)	١	10	عالم المارير عمالية إل	7,4	250		/	KILL	ph
9.5	14	13	13	1/3)ų	43	1/3	1/3	1/3	1/3		1751	8.9.5	VISO	/	1	Promis	All
120	17	16	16	\ls	18	17	46	l	76	16	10		800	25 B.A	/	_	151200	pu-
144	111	199	18	bo	10	In	1/0	77	18	19	10	1.80	8.3	150			المحلال الم	AL
100		314Q-381285A							1 444 7 4400									
192																		
TOTAL NEGNATES	22	18	17	18	22	23	19	10	17	18								

x= 18,2

THESE DATA WERE COLLECTED IN ACCORDANCE WITH SOP TLLZ. INITIALS/ DATE: & D7 Ports

Alabama Office 334/745-0055 or 800/662-1584 Fax: 334/745-3095 TBrantly & AuburnEnvironmental.com 6485 LEE HOAD 54 AUBURN, AL 35830

Colorado Office 1-800-408-0083 MWallace @ AubumEnvironmental.com PO BOX 271716 FT. COLLINS, CO 80527

November 11, 2016

Mr. Theo Pinson Field Toxics Unit ADEM P.O. Box 301463 Montgomery, AL 36130-1463

Dear Mr. Pinson,

Attached you will please find the results for the chronic reference test performed on Fathead minnow (October 18 to October 25, 2016) and Ceriodaphnia dubia (October 18 to October 24, 2016).

Results are as follows:

PARAMETER	FATHEAD MINNOWS	CERTODAPHNIA DUBIA
NOEC SURVIVAL	1.5 G/L	1.25 G/L
LOEC SURVIVAL	2.0 G/L	1.5 G/L
NOEC GROWTH/REPRO	1.5 G/L	0.5 G/L
LOEC GROWTH/REPRO	2.0 G/L	0.75 G/L
IC25	1.6 G/L	0.80 G/L

If you have any questions or comments on this test please call me at (334) 745-0055.

Sincerely,

Thomas B. Brantly, Jr. Laboratory Manager



6485 Lee Road 54 Auburn, AL 36801 800 662-1584

PROJECT No.: __275-075____ BEGINNING DATE: __01 NOV 16 CLIENT: __CLANTON WWTP_____

3 BROOD CERIODAPHNIA TOXICITY TEST (continued)

TEST SEQUENCE INITIAL TEST FIRST RETEST SECOND RETEST

**1 = ALIVE 0 = DEAD

** 1/1 = 1 ADULT, 1 NEONATE

** M = MISSING

75.0 % I.W.C

TEST				TE	ST CH	AMBER	**				LIVE	рН	DO	TEMP	FED	SOLUTIONS	INITIALS	NOTES AND
HOUR	1	2	3	4	5	6	7	8	9	10	ADULTS	pri	mg/l	0C	ORGANISMS	RENEWED	TIME	OBSERVATIONS
START	1	1	1	1	1	1	1	1	1	1	10	7.65	8.0	25.0	YES		BILLON	All Normal
24	\	1	١	\	1	\					10	1.5365	27/0	13°21-		1	454-	BL -
48	1	(1	(١	\	1	\	(10	7.54.50	2.485	2500		/	& we	104
72	١	(\	١	١	1	_	1	1	١	10	26157	2.12,7	25,01		1	كالا	Almel
96	1/3	1/5	44	1/3	14	1/5	14	1/4	13	13	15	71.57	7.4	25.50		~	لايلام	N 1
120	7/6	19	16	19	47	1,8	17	16	16	16	(0	7.69	25/2	153		/	7 140	All -
144	710	110	1/2	110	19	112	111	110	402	400	10	213	2.9	153			13 mis	, ple
168																		
192																		
TOTAL NEONATES	19	24	22	22	25	25	22	20	2\	19								

X221.4

100% EFFLUENT

DAYS	1	2	3	4	5	6	7	
рН	7,58	2,72	5.23	7,52	7,79	283	งาเ	

NOTES AND OBSERVATIONS	



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT TOXICITY TEST REPORT SUMMARY

1. GENER NPDES		T NO.:	AL0054	1631		D	SN:			001		COUN	TY:	Chilton	County	y	
Permitee				. 11/11/2		M A1.1		-									
Facility N						lanton, Alab											
						n, 1574 Coun											
	_	-	/ Test(s)	: _	TTL	, Inc., 3516	6 Gree	ensboro	Α (ve., Tu	ıscal	loosa, AL	35403				
Months 7													Marranh				
					ed t	or the Mor	ith of:	<u> </u>	.1-			/-\. \.	Novembe	er 		A.L.	
Schedule Accelera	,		Yes _	X	-	No _		_ Acce		rated T			es d Toot	Doto:	_	No	X
Test Type				10 Ur	Λ αι	of ite Screen	ina:			For Fa	mea	Schedule	-Hr Ac		finitiv		
1621 Typ	e rrequ	iieu.				nic Screeni		Y		_		Short-ter					
			SHOIL-	eiiii C	11101	iic Scieeni	g	^		_		Short-lei	III CIIIO	nic De	111111111111111111111111111111111111111	e. <u> </u>	
	Test 0	Organis	m: Pime	phales	pro	omelas			•	Test O	rgan	nism: Cen	odaphn	ia dub	ia		
Sam	Date/Ti		tart	Date/			(Control		Date/Tin	ne	Start	Date/1		Ended	T T	Control
No.	MM/DE		H:MM	MM/D				Valid	┸	MM/DD/		HH:MM			HH:MN	A	Valid
1	11	/07/17, 14	4:05	1	1/14/	17, 14:35	+	Yes	4	11/0	07/17	, 14:05	1	1/14/17,	14:25	\dashv	Yes
									╫				-				
	1																
2A.	SUMN	1ARY O	F RESU	LTS F	OR	SCREEN	NG T	EST:									
								To	est	Number							
Test	Eff.		(1)	1 6			(2)					(3)				(4)	
Org.	75%	Sur	Rep		ass	Sur	Rep	Gr	0	Sui	r	Rep	Gro	Sur		Rep	Gro
P.p.	75%	Pass	Pass		a33	 					_				_		
			7/200	A											************		1
2B.		MARY C	F RESU			DEFINITI'							···				
Test Org	anism			Test	Solut	ion Concentra	ation (%)	_			LC50	NOEC		Not [Determ	ined
									+		\rightarrow			-			
		<u></u>										1					
3.	LABO	RATOR	Y ANAL	YSIS	OF I	UNDILUTE	D SA	MPLES) :								
Sample		рН	Alkalir		Ha	rdness(eff)		Cond	Н	lardness	, ,						
ID 1		s.u. 8.02	mg/L Ca			mg/L 100		os/cm 89		mg/L 101			-				
2		8.03	123			92.6		50		101							
3	1	B.03	114			107		78									
CI- ID	1 4	-:- (-1)	10-4	· · · · · · · · · · · · · · · · · · ·				Facilities				1 ((1)					
Sample ID	Arse	nic (g/L)	Cadit	ım (g/L)	-	Chromium (g	}/L)	Copper	(g/	(L)	Lea	d (g/L)		Hexava	alent C	hromit	ım (g/L)
Sample ID	Merc	cury (g/L)	Nicke	l (g/L)		Silver (g/L)		Zinc (g/	L)		Tota	al Cyanide (g/L)	Other(s	s) (g/L)		
												·					
Chemical	Analysi	s Perfo	rmed By	(LAB)):	TTL, Inc.											
Instantane	eous Flo	ow:	(1)			GPM											
Total 24-F			(1)			MGD		(2)				_ MGD		(3)			MGD
			() _					(-)						(", _			
Comment	s:																
						re prepared under											
submitted is, to the	ne best of m	y knowledge				the person or pers I complete. I am a											
mprisonment for	knowing vio	lations.												=		•	
NONAT:	DE 05	DE055	MOIS! =	055	014												
SIGNATU	KE OF	KESPC	MSIBLE	OFFI	CIA	L:							DA	ATE:			·

Facility Name	e: Clanto	n WWTP		NPDE	S #: _	AL005	4631 DSN	:001	_ Date:	_	01/30/18	
4. SAM	IPLE COLI	LECTION:										
Split Sample	s: N/A	X	Yes	(expla	ain) _							
Samples Col	lected as	Specified in t	he NPDES F	Permit: Y	/es	X	No (exp	olain)				
Receiving Wa	ater: _ W	'alnut Creek					Desi	gn Flow:	Monito	or (I	MGD)2.25	
Sample ID	MM/DD		(s) Collected - MM/DD/Y	ү ннмм	1	rival np (C)		Used i MM/DD/YY	n Test(s) - MM/	DD/YY		
1		11/05/17, 08:0	0 – 11/06/17, 08	:00	1	1.2		11/07/17	- 11/08/1	17		
2			0 – 11/08/17, 8:0			1.1		11/09/17				
3		11/09/17, 8:00	0 – 11/10/17, 8:0	00	().9		11/11/17	<u> </u>	17		
					<u> </u>							
		LUTION WA				······································						
Туре		epared /DD/YY		in Use DD/YY			Initia	l Water Chem	istries			
000/5101		100117			-	ırd.	Alk.	pН	Cor		0.℃	
20%DMW 20%DMW		/30/17 /06/17		07/17 11/17		0 0	60	7.8 7.7	17		26.0	
2076010100	11/	700717	11/	11/1/	- °	1	00	1.1	10	U	26.0	
							-		 			
	CITY TES	T INFORMA	TION:									
Test Species	F	anism \ge	So	anism urce			Test So	olution Concen	trations ((%)		
Pp		8 hrs		systems, Inc		00	45					
Cd	<2	4 hrs	In-hous	e Culture	<u> </u>	00	45					
Test		Test Vess	sel	Vessel		1	Solution	Org. / Te			Replicates	
Species		Туре		Vol. (mL	.)	V	ol. (mL)	Vesse		pe	er Conc.	
Pp		Plastic Beal		600			300	15			4	
Cd		Plastic Beal	kers	30			15	1			10	
		r = =			·····							
Test Spe			ange (C) - 26.0	D.O. Rang 7.6 –		-)	pH Range 7.5 –		Light II	ntensity 98	Avg. (ft-c)	
Cd			- 26.0 - 26.0	7.9 -			7.5 -			98		
7. FEEC	ING:	,										
Not Fed:		Fed	Daily: X		Fedil	rregula	ar:	(Explai	n in con	nment	ts below)	
Brine Shrimp:	F	ed 0.15	mL Sus Larvae	spension of N	lewly I	Hatche	ed 2	2	Times	Daily.		
YCT:	F	ed 0.1		spension Cor	ntainin	q	1	.8	mg/L 1	rss d	ailv.	
Algae:		ed 0.1		spension Con				3.0x10 ⁷			nL Daily.	
COMMENTS:							_					
	-											

Facilit	y Name: _Clanton	WWTP		NPDE	S#: _A	L0054631	DSN:	001	Date:	01/30/18
8.	REFERENCE T	OXICAN	IT TESTS:							
Toxica	int: Potassium	Chloride	e, KCI	Source:	Omnipi	ur Lot# UK2	2FZEMS	_ CAS#	7447	-40-7
Solutio	on concentration u	ınit:	mg/L X	g/L		%		other (spe	cify):	
Test Org.	Test Date MM/DD - MN		Control Water				Test Solution nt. to Highes	Concentratio t Conc.)	ns	
Pp Cd	10/24/17 - 10/ 10/24/17 - 10/		20%DMW 20%DMW	00	125 62.5	250 125	500 250	1000	2000 1000	
00	1 10/2/11 10/	01/1/	1 20/00/11		02.0	120	1 200	1 000	1	
Test Org.	Results		95% Confidence Inte	erval	Uppe		CUSUM Ch (This Test)	art Control Lir	nit	Number (N)
Pp Cd	845 117		619 - 1130 91 - 157				806 - 447 173 - 131			20
9.A. None. 9.B. None.			rd Test Condition							
10.	Physical, Chemic Toxicity Tests Da	Chain-o	FTACHMENTS: f-Custody Forms, Biological Measu							
The raw	ENTS: reference toxicant dat	a is on file	with ADEM.							

Facility Name: Clanton WWTP NPDES #:	AL0054631 DSN: 001 Date: 01/30/18
11.C. CHRONIC SCREENING TOXICITY TESTS RESULTS (Fro	reshwater):
TEST ORGANISM: Ceriodaphnia dubia	
Were Neonates Used to Begin the Test Within 8 Hours of the Same	e Age ?: Yes: X No:
Did 60% of the CONTROL Females Produce Their Third Brood ?:	Yes: X No:
SURVIVAL	
CHRONIC TOXICITY INDICATED: YES	NO X
NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: X	
CONTROL(%) 24h 100 48h 100 END 80 EFFL	UENT(%) 24h 100 48h 100 END 90
Fishers Exact Test: A = B =	a = b =
REPRODUCTION (Average Neonates/Female)	
CHRONIC TOXICITY INDICATED: YES	NO X
NO REPRODUCTION STATISTICAL ANALYSIS NECESSARY:	
CONTROL: 17.7 EFFLUENT: 14.9	
Normally Distributed: YES X NO	0
Test Statistic: 0.980 Critical Value: 0.868	(Parametric)
Equal variance: X Unequal variance	e:
F Statistic: 2.58 Critical F	=: 6.54
t - Test Statistic: 0.626 t - Test Critical Value	e: 1.743
Sample Rank Sum: # Reps.:	Critical Rank Sum: (Non - Parametric)
COMMENTS: No Ceriodaphnia survival statistical analysis was neces	ssary since effluent survival exceeded control survival.
TEST ORGANISM: Pimephale promelas	
SURVIVAL	
SURVIVAL CHRONIC TOXICITY INDICATED: YES	NO <u>X</u>
SURVIVAL CHRONIC TOXICITY INDICATED: YES NO SURVIVAL STATISTICAL ANALYSIS NECESSARY:	
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFLOR	UENT(%) 24h <u>100</u> 48h <u>96.7</u> END <u>85.0</u>
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFLI Normally Distributed: YES X NO	UENT(%) 24h <u>100</u> 48h <u>96.7</u> END <u>85.0</u>
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: YES X NO Test Statistic: 0.888 Critical Value: 0.749	UENT(%) 24h <u>100</u> 48h <u>96.7</u> END <u>85.0</u> O (Parametric)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: Test Statistic: 0.888 Equal variance: X Unequal variance	UENT(%) 24h 100 48h 96.7 END 85.0 (Parametric)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFLOR Normally Distributed: YES X NO Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.01 Critical F	UENT(%) 24h <u>100</u> 48h <u>96.7</u> END <u>85.0</u> O (Parametric)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFLOR Normally Distributed: Test Statistic: 0.888 Critical Value: 0.749 Equal variance: F Statistic: 1.01 Critical F t - Test Statistic: 1.997 t - Test Critical Value	UENT(%) 24h 100 48h 96.7 END 85.0 (Parametric) E: 47.47 E: 1.943
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.997 t - Test Critical Value Sample Rank Sum: # Reps.:	UENT(%) 24h <u>100</u> 48h <u>96.7</u> END <u>85.0</u> O (Parametric)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.997 t - Test Critical Value Sample Rank Sum: # Reps.: GROWTH (Mean Dry Weight - mg)	UENT(%) 24h 100 48h 96.7 END 85.0 (Parametric) 3: 47.47 4: 1.943 Critical Rank Sum: (Non - Parametric)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: YES X NO Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.01 Critical F t - Test Statistic: 1.997 t - Test Critical Value Sample Rank Sum: # Reps.: GROWTH (Mean Dry Weight - mg) CHRONIC TOXICITY INDICATED: YES	UENT(%) 24h 100 48h 96.7 END 85.0 (Parametric) E: 47.47 E: 1.943
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFLOR Normally Distributed: YES X NO Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.01 Critical F t - Test Statistic: 1.997 t - Test Critical Value Sample Rank Sum: # Reps.: GROWTH (Mean Dry Weight - mg) CHRONIC TOXICITY INDICATED: YES NO GROWTH STATISTICAL ANALYSIS NECESSARY:	UENT(%) 24h 100 48h 96.7 END 85.0 (Parametric) 3: 47.47 4: 1.943 Critical Rank Sum: (Non - Parametric)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: YES X NO Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.01 Critical F t - Test Statistic: 1.997 t - Test Critical Value Sample Rank Sum: # Reps.: GROWTH (Mean Dry Weight - mg) CHRONIC TOXICITY INDICATED: YES NO GROWTH STATISTICAL ANALYSIS NECESSARY: CONTROL: 0.2537 EFFLUENT: 0.2220	UENT(%) 24h 100 48h 96.7 END 85.0 (Parametric) E: 47.47 E: 1.943 Critical Rank Sum: (Non - Parametric)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: YES X NO Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.01 Critical F t - Test Statistic: 1.997 t - Test Critical Value Sample Rank Sum: # Reps.: GROWTH (Mean Dry Weight - mg) CHRONIC TOXICITY INDICATED: YES NO GROWTH STATISTICAL ANALYSIS NECESSARY: CONTROL: 0.2537 EFFLUENT: 0.2220 Normally Distributed: YES X NO	UENT(%) 24h 100 48h 96.7 END 85.0 (Parametric) E: 47.47 E: 1.943 Critical Rank Sum: (Non - Parametric)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.997 t - Test Critical Value Sample Rank Sum: # Reps.: GROWTH (Mean Dry Weight - mg) CHRONIC TOXICITY INDICATED: YES NO GROWTH STATISTICAL ANALYSIS NECESSARY: CONTROL: 0.2537 Normally Distributed: YES X NO Test Statistic: 0.953 Critical Value: 0.749	UENT(%) 24h 100 48h 96.7 END 85.0 (Parametric) 3:
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.997 t - Test Critical Value Sample Rank Sum: # Reps.: GROWTH (Mean Dry Weight - mg) CHRONIC TOXICITY INDICATED: NO GROWTH STATISTICAL ANALYSIS NECESSARY: CONTROL: 0.2537 Normally Distributed: Test Statistic: 0.953 Critical Value: 0.749 Equal variance: X Unequal variance	UENT(%)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: Test Statistic: 0.888 Equal variance: X Unequal variance F Statistic: 1.997 T - Test Statistic: 1.997 T - Test Statistic: 1.997 T - Test Critical Value: 0.749 EQROWTH (Mean Dry Weight - mg) CHRONIC TOXICITY INDICATED: NO GROWTH STATISTICAL ANALYSIS NECESSARY: CONTROL: 0.2537 REFFLUENT: 0.2220 Normally Distributed: Test Statistic: 0.953 Equal variance: X Unequal variance F Statistic: 13.26 Critical F	UENT(%)
SURVIVAL CHRONIC TOXICITY INDICATED: NO SURVIVAL STATISTICAL ANALYSIS NECESSARY: CONTROL(%) 24h 100 48h 100 END 95.0 EFFL Normally Distributed: Test Statistic: 0.888 Critical Value: 0.749 Equal variance: X Unequal variance F Statistic: 1.997 t - Test Critical Value Sample Rank Sum: # Reps.: GROWTH (Mean Dry Weight - mg) CHRONIC TOXICITY INDICATED: NO GROWTH STATISTICAL ANALYSIS NECESSARY: CONTROL: 0.2537 Normally Distributed: Test Statistic: 0.953 Critical Value: 0.749 Equal variance: X Unequal variance	UENT(%)

Summary Data for Ceriodaphnia Survival and Reproduction Test

Discharger: Location:	Clanton WWTP Effluent		Test Dates: Analyst:	11/07/17-11/14/17 WDM, JML, MMC, JW	IWD, CRS
Treatment		Control		Effluent	
No. Live Adults	Start 24 Hours 48 Hours End	10 10 10 8		10 10 10 9	
Survival (%)	24 Hours 48 Hours End	100.0 100.0 80.0		100.0 100.0 90.0	
Mean number young/adult	of	17.7		14.9	
Standard Devia	ation	12.01		7.48	
Variance		144.23		55.88	
Coefficient of Variation		67.85		50.17	
Physical/Chem	nical Data	CONTROL		EFFLUENT	
Temperature °C	Avg Min Max	25.3 24.0 26.0		25.2 24.0 26.0	
D.O. mg/L	Avg Min Max	8.3 8.3 8.3		8.3 7.9 8.3	
pH s.u.	Avg Min Max	8.0 7.4 8.4		8.1 7.5 8.4	
Alkalinity	Mean	60		60	
mg/L Hardness	Mean	80		100	
mg/L Conductivity	Mean	180		518	
umhos/cm Light Intens. ft-c	Mean	98		98	

. Summary Data for Fathead Minnow Larval Survival and Growth Test

Discharger: Location:	Clanton WWTP Effluent		Test Dates: Analyst:	11/07/17-11/14/17 WDM, JML, MMC, JMWD, CRS
Treatment		Control		Effluent
No. Live Larvae	Start 24 Hours 48 Hours End	60 60 60 57		60 60 58 51
Survival (%)	24 Hours 48 Hours End	100.0 100.0 95.0		100.0 96.7 85.0
Mean dry wgt. of larvae (mg)		0.2537		0.2220
Standard Devi	ation	0.0151		0.0550
Variance		0.0002		0.0030
Coefficient of Variation		5.96		24.79
Physical/Chem	iical Data	CONTROL		EFFLUENT
Temperature °C	Avg Min Max	25.2 24.0 26.0		25.3 24.2 26.0
D.O.	Avg	8.1		8.2
mg/L	Min Max	7.5 8.3		7.6 8.3
pH s.u.	Avg Min Max	7.9 7.4 8.0		8.1 7.5 9.2
Alkalinity	Mean	60		60
mg/L Hardness	Mean	80		100
mg/L Conductivity	Mean	179		524
umhos/cm Light Intens. ft-c	Mean	. 98		98

FATHEAD MINNOW SURVIVAL AND GROWTH DATA

LOCAT TEST I	T\TOXICA TION/SOL START: END: ION WAT	JRCE: 11/7/2017 11/14/2017	Clanton WWTP			ANALYST. TEST CHA FOOD: TEST TEN ORGANIS	AMBER: G / F 0.15 MP.(rng C):	_ ml Brine sh	600	WD2	 _x daily
		WWTP 75%	2070 DI	100	Chemical/P		IVI AGE.		11115	-	
Gumpic	o. Oldinoi					Day		_			
Temp	Initial	<u> </u>	26.0	26.0	<u>4</u> 26.0	5 26.0	6 26.0	7 26.0	8	9	_
C	Final	24.8	24.7	24.2	24.3	24.7	24.7	24.4			
0.0										<u>-</u>	_
D.O. mg\l	Initial	8.3	8.3	7.9	8.3	8.3	8.3	8.3			
	Final	8.2	7.6	8.0	8.3	8.3	8.3	8.3			_
pH s u.	Initial	8.0	7.5	7.9	7.8	8.0	8.0	8.0			
	Final	7.7	8.1	8.0	8.3	8.3	8.9	9.2			-
Alkalinit	ty	60		60		60					
Hardne	ss	100		100		100					
mg/i as La Conduc umnos/cm	ctivity	479	479	549	529	552	557	557			_
Chlorine		<0.01		<0.01		<0.01					
mgii Light In	tensity	98									-
pH - Un	diluted	8.0	7.9	8.1	7.8	7.9	7.0	7.8			1
Analyst/time	e Initial	JML/MMC/JMWD 140	5 JML 1415	JML/MMC 1240) JMLMMC/JMWD 142	5 MMC/JMWD 1510	0 MMC/JMWD 131	MMC/JMWD 142	0		_
Analyst/time	e Final	MMC 1450	MMC 1315	MMC 1500	MMC 1545	MMC 1345	MMC 1455	JML 1435			
Survival	Data		C4-+ (ON)			Day		-		7 (01)	
Replicat	te.	1	Start (ON) 15	1 15	2 15	3 15	15	5 15	15	7 (SN) 14	7
Перисы		2	15	15	15	15	15	14	14	13	
Organis	m age	3	15	15	14	14	13	13	13	13	1
<2	24hrs	4	15	15	14	12	12	12	12	11]
Eacding	time am			0800	800	0800	1400	1220	800	VIC	7
Renewa			1435	1425	1250	1435	1520	1230 1320	1430	NF 1410	
	time pm		1700	1700	1700	1700	1600	1400	1700		
Analyst			JML/MMC/JMWD	MMC	ммс	ММС	MMC	MMC	ММС	JML]
		44444			Growth Data						
Drying D Weighin		11/14/2017 11/16/2017		Time in:	1500 Drying temp:	Time out:	11/16/2017 100	1500 Analyst:	Total dry JML	ring time:	48.0
Rep #	Boat #	Dry Wgt of Boat (mg)		Dry wgt of bo and larvae (m		Total Dry Wg of Larvae (mg		SN# of larvae	Mean dry		
1	Clan-1	1292.2	27		6.21	3.9		14	0.26		
2	Clan-2	1311.9			6.12	4.1		13	0.27		
3	Clan-3	1304.0	14	130	6.60	2.5	56	13	0.17	07	AVG (mg)
4	Clan-4	1311.7	3	131	4.41	2.6	58	11	0.17	87	0.222

Comments:

Data approved by:
TTL, Inc., 3516 Greensboro Ave., Tuscaloosa, AL 35403, Phone (205) 345-0816, Fax (205) 345-0992

ERIODAPHNIA SURVIVAL AND REPRODUCTION DATA

		CERIODAPHI	NIA SUKV	IVAL AND I	KEPKUDUGI	ION DATA					
	T\TOXICAN TON/SOUF START:		Clanton WWTP			TEST CH FOOD: FOOD:	0.10 0.10	G / P _ml YTC _ml Algae	30 1.8 3.0x10 ⁷	_ml _g/l TSS _cell/ml	
TEST E		11/14/2017	6004 514	14.			MP.(rng C):		25 +/- 1	_	
	ON WATE	K: 	20% DM	VV		ORGANIS	SM AGE:		24 nrs Witr	in 6 nrs (of same age
Sample	: Clanton \	WWTP 75%		-	Chemical/Ph	-					
		1	2	3	44	Day 5	6	7	8	9	_
Temp c	Initial	26.0	26.0	26.0	26.0	26.0	26.0	26.0			
	Final	24.2	24.7	24.0	24.0	24.0	24.5	25.8			_
D.O. mgu	Initial	8.3	8.3	7.9	8.3	8.3	8.3	8.3			
	Final	8.3	8.3	8.2	8.3	8.3	8.3	8.3			_
pH s.u.	Initial	8.0	7.5	7.9	7.8	8.0	8.0	8.0			
3. u.	Final	8.2	8.2	8.3	8.4	8.4	8.3	8.4			_
Alkalini	ty	60		60		60					
Hardne	ss	100		100		100					_
Conduc		479	479	549	529	552	557	557			
Chlorin		<0.01		<0.01		<0.01					_
Light In	tensity	98									
pH - Un	diluted	8.0	7.9	8.1	7.8	7.9	7.0	7.8			}
Analyst/time	e Initial	JML/MMC/JMWD 1405	JML 1415	JML/MMC 1240	JMLMMC/JMWD 1425	MMCJMWD 1510	MMC/JMWD 1310	MMC/JMWD 1420			J
Analyst/time	: Final	JML 1445	JML 1300	JML/JMWD 1455	JMWD 1530	JMWD 1335	MMC/JMWD 1440	MMC 1425	_		
Soln chan	ge time	JML 1420	JML 1245	JML/JMWD 1430	JMWD 1515	JMWD 1315	MMC/JMWD 1425	MMC 1410	. ——		
Survival	& Reprodu	uction Data			REPLICATE	S					
Parent		A8	B37	B48	A6	B40	A44	B23	A33	B37]
DAY 1	1	2 Neonates Brd	3	4	5 Neonates Brd	6 Nacastas Dad	/	8 Neonates Brd	9	10	Neonates cntd
ו ואט	Neonates Brd	0	0	Neonates Brd	0	Neonates Brd O	0	0	0	0	JML 1420
2	0	0	0	0	0	0	0	0	0	0	JML 1245
3	0	0	0	0	0	5	6	0	3	0	INAL / INA\A/D 4 420
4	1		1	1	1	2	2	1	2	1	JML/JMWD 1430
5	2 2	0 1	3 2	4 2	1 2	4	5	5 2	3	3 2	JMWD 1515
	3	4	8	4	4	0	0	6	2	4	JMWD 1315
. 6	4	4	10 10	2	3 X1	5 5	12 12	8	2	2	MMC/JMWD 1425
7	7	2	8	0		0	0	3	0	0	MMC 1410
8											WING 1410
Total Young	16	10	29	10	6	14	23	22	10	9	AVG 14.9
	Numbers = # X = Adult de M = Adult kil		y = adult ma	ıle _				Comments:			

Data approved by:

TTL, Inc., 3516 Greenshoro Ave., Tuscaloosa, AL 35403, Phone (205) 345-0816, Fax (205) 345-0992

FATHEAD MINNOW SURVIVAL AND GROWTH DATA

TEST STAPE	CLIENT/TOXICANT:		Control			_ ANALYST:		WDM, JML, MMC, JMWD			_	
TEST TEMP TIMP TI				TTL, Inc			_		mal Deima ala	600	- 2	ما المامان
Part									_ mil brine sn			_ x dally
The content of the				20% DM	W				<24		- -	
The bound The	Sample	: Control				Chemical/Physi	cal Data					
Tend Initial Tend Te			1	2	3	4		6	7	8	9	
Final	Temp	Initial					·					-
Pinal Rina	C	Final	24.7	24.8	24.3	24.2	24.0	24.6	24.5			
Final Ra1 Ra1 Ra2 Ra3 Ra3 Ra3 Ra3 Ra5 Ra3 Ra5 R		Initial	8.3	8.3	8.3	8.3	8.3	8.3	8.3			
Final 7.9 7.9 7.9 7.9 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 8	mgu	Final	8.1	7.6	7.7	7.9	8.0	7.5	8.3			
Final 7.9 7.9 7.9 7.9 7.9 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 7.0 8.	рН	Initial	8.0	7.4	8.0	7.8	7.7	8.0	8.0			
Regular Reg	s.u.	Final	7.9	7.9	7.9	7.9	8.0	7.9	8.0			
Hardress Ro	Alkalinit	у	60		60		60					
Conductivity or Politic minimiser 178 178 181 177 179 178 187 Chlorine biggish Intensity of Digital biggish memory is politic biggish intensity of Digital biggish bat is politic biggish biggi	Hardnes	SS	80		80		80					
Color Col	Conduc		178	178	181	177	179	178	187			_
Part	Chlorine	•	<0.01		<0.01		<0.01					_
PH - Undituted	Light Int	tensity	98									
Start CN 1	pH - Un	diluted	8.0	7.4	8.0	7.8	7.7	8.0	8.0			7
Survival Data Day 3 4 5 6 7 (SN) Replicate 1 1 15 15 15 15 15 14 14 14 14 14 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Analyst/time	e Initial	JML/MMC/JMWD 1405	5 JML 1415	JML/MMC 1240	JMLMMC/JMWD 1425	MMC/JMWD 1510	MMC/JMWD 1310	0 MMC/JMWD 142	0		-1
Start (ON)	Analyst/time	e Final	MMC 1450	MMC 1315	MMC 1500	MMC 1545	MMC 1345	MMC 1455	JML 1435			
Replicate 1 15 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 </td <td>Survival</td> <td>Data</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>Stort (ON)</td> <td>1</td> <td>2</td> <td></td> <td>4</td> <td>5</td> <td>6</td> <td>7 (SNI)</td> <td></td>	Survival	Data	· · · · · · · · · · · · · · · · · · ·	Stort (ON)	1	2		4	5	6	7 (SNI)	
Organism age 2 15 15 15 14 14 14 14 13 Feeding time am Renewal time Feeding time pm Analyst — 0800 800 0800 1400 1230 800 NF 1435 1440 1305 1450 1535 1335 1445 1425 Feeding time pm Analyst 1700 1700 1700 1700 1700 1600 1400 1700 —— MMC MMC MMC MMC MMC MMC MMC MMC MMC JML Drying Date: Weighing Date: ## 11/14/2017	Renlicat		,		T	1		T	T	1		7
Organism age 3 15 15 15 15 15 15 15 1	Replicat	C				1	+	 		 		1
Seeding time am Renewal time Preding time pm Analyst Seeding time pm Analyst Analyst Seeding time pm Analyst	Organisi	m ane			1		 	 		 		
Renewal time Feeding time pm Analyst An	-	•				 			· · · · · · · · · · · · · · · · · · ·	1]
Renewal time Feeding time pm Analyst	F "				2000	000	0000	1 400	1000	1 000		7
Tool	•			1435		 	 	 	 			-
Analyst MMC MM					 	1		-	T			1
Drying Date: 11/14/2017 Time in: 1500 Time out: 11/16/2017 1500 Total drying time: 48.0	_	•						 			JML	
Weighing Date: 11/16/2017 Drying temp: 100 Analyst: JML Rep # # # # of Boat (mg) Dry Wgt of boat and larvae (mg) Total Dry Wgt of Larvae (mg) SN# of larvae Mean dry wgt of ON# la 1 TTL-1 1295.02 1298.66 3.64 14 0.2427 2 TTL-2 1297.51 1301.64 4.13 13 0.2753 3 TTL-3 1291.27 1294.93 3.66 15 0.2440 AVG (mg) 4 TTL-4 1293.75 1297.54 3.79 15 0.2527 0.2537						Growth Data						
Rep # Boat # Dry Wgt of Boat (mg) Dry wgt of boat and larvae (mg) Total Dry Wgt of Larvae (mg) SN# of larvae Mean dry wgt of ON# la 1 TTL-1 1295.02 1298.66 3.64 14 0.2427 2 TTL-2 1297.51 1301.64 4.13 13 0.2753 3 TTL-3 1291.27 1294.93 3.66 15 0.2440 AVG (mg) 4 TTL-4 1293.75 1297.54 3.79 15 0.2527 0.2537					Time in:		Time out:				ying time:	48.0
1 TTL-1 1295.02 1298.66 3.64 14 0.2427 2 TTL-2 1297.51 1301.64 4.13 13 0.2753 3 TTL-3 1291.27 1294.93 3.66 15 0.2440 AVG (mg) 4 TTL-4 1293.75 1297.54 3.79 15 0.2527 0.2537	Rep		Dry Wgt		Dry wgt of boat					Mean dry	wgt	1
2 TTL-2 1297.51 1301.64 4.13 13 0.2753 3 TTL-3 1291.27 1294.93 3.66 15 0.2440 AVG (mg) 4 TTL-4 1293.75 1297.54 3.79 15 0.2527 0.2537		 				···	1			-		-
3 TTL-3 1291.27 1294.93 3.66 15 0.2440 AVG (mg) 4 TTL-4 1293.75 1297.54 3.79 15 0.2527 0.2537									1	1		-
4 TTL-4 1293.75 1297.54 3.79 15 0.2527 0.2537		1							 	 		1
		1					 		 	1		7 1
	L	•	1293.7	ວ	129	97.54] 3.7	Э	1 15	0.2	021	0.2537

Data approved by:
TTL, Inc., 3516 Greensboro Ave., Tuscaloosa, AL 35403, Phone (205) 345-0816, Fax (205) 345-0992

		CERIODAPHN	IA SURVI	VAL AND RE	PRODUCTIO	N DATA					
	NTOXICAN		Control TTL, Inc.			TEST CH.	AMBER: G 0.10	/ P ml YTC	<u>30</u>	_ml _g/l TSS	
TEST S	TART:	11/7/2017				FOOD:	0.10	- ml Algae	3.0x10 ⁷		
TEST E		11/14/2017					MP.(mg C):	_	25 +/- 1	_	
DILUTIO	ON WATER	₹:	20% DM	W		ORGANIS	SM AGE:		<24 hrs wit	hin 6 hrs	of same age
Sample	: Control			-	Chemical/Phy	ysical Data Day					
		1	2	3	4	5	6	7	8	9	_
Temp C	Initial	26.0	26.0	26.0	26.0	26.0	26.0	26.0			
	Final	24.0	25.3	24.0	24.8	24.0	24.7	25.7			_
D.O.	Initial	8.3	8.3	8.3	8.3	8.3	8.3	8.3			
iligu	Final	8.3	8.3	8.3	8.3	8.3	8.3	8.3			_
рН	Initial	8.0	7.4	8.0	7.8	7.7	8.0	8.0			
s.u.	Final	7.8	8.1	8.4	8.3	8.3	8.2	8.4			_
Alkalinity		60		60		60					
Hardnes	SS	80		80		80					_
Conduct		178	178	181	177	179	178	187			
Chlorine	!	<0.01		<0.01	* ***	<0.01					_
Light Int		98									
pH - Un	diluted	8.0	7.4	8.0	7.8	7.7	8.0	8.0]
Analyst/time	Initial	JML/MMC/JMVVD 1405	JML 1415	JML/MMC 1240	JMLMMC/JMWD 1425	MMC/JMWD 1510	MMC/JMWD 1310	MMC/JMWD 1420)		
Analyst/time	Final	JML 1445	JML 1300	JML/JMWD 1455	JMWD 1530	JMWD 1335	MMC/JMWD 1440	MMC 1425	-		
Soln chan	ge time	JML 1430	JML 1255	JML/JMWD 1440	JMWD 1525	JMWD 1325	MMC/JMWD 1435	MMC 1420			
Survival	& Reprodu	ction Data			REPLICATE						_
Parent		A8	B37	B48	A6 5	B40	A44	B23	A33 9	B37	
DAY 1	1 Neonates Brd	2 Neonates Brd	3 Neonates Brd	4 Neonates Brd	Neonates Brd	6 Neonates Brd	Neonates Brd	Neonates Bro	·	10	Neonates cntd Time/anlst ini.
<i>D</i> /(1 1	0	0	0	0	0	0	0	0	0	0	JML 1430
2	0	0	0	0	0	0	0	0	0	0	JML 1255
3	0	0	0	0	1	0	0	1	1	0	JML/JMWD 1440
4		1	1		5 5	1	1	Х	3	1	
5	0 1	2	11 2	1 1	2	4 2	5	^	2	2	JMWD 1525
6	5 2	0	3	3 2	7 3	10	0		2	5	JMWD 1325
7	7	0 2	7 3	14	X8	15	0		5	0 3	MMC/JMWD 1435
	0	3	18	0		0	0		11	16	MMC 1420
8											
Fotal Young	12	5	39	18	21	29	5	1	22	25	AVG 17.7
	Numbers = :	# of young	f = fourth br	ood; not counted				Comments:			

Data approved by:

TTL, Inc., 3516 Greensboro Ave., Tuscaloosa, AL: 35403, Phone (205) 345-0816, Fax (205) 345-0992

M = Adult killed or lost by tech

7	

TTL WORK

ORDER NUMBER

171106019

Composite Sample Info

Sample Security Requirements

3. Initial Contents Temp.: C Seal Applied Yes No

4. Custody Seal Intact Upon Receipt by Laboratory: Yes____

Client:

City of Clanton - WAVER

Contact:

Mr. Anthony Robinson

Mailing Address: 6574 County Road 51

City, State, Zip: Thereon AL 35000

Phone No.: (205) 755-2380

Sampled By:

Project ID:

Project Name:

810-Clanton 1

WAVTE Brotok Dan 1

5. Condition of Contents: ___

6. Comments:

1. Condition of Contents:

2. Sealed for Shipping By:

7. Reporting Status: Routine; _____; Rush By

8. Client P.O. #

		6 4 6 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		o. onotic rice.						
Date	Time	Sample ID/Description	Sample Type	Sample Method	Sample Containers	Analysis Parameters				
11-06-17	. 8:45	instresm	4.5041.79		1 100 PT FURMO:	50 2用 0.156				
11-08-17	- 8114	Cranton www.TR Efficient	+ 121265 113	COMPRE	3 1287 -1356	2011 19 Fife - 中央中央人员				
11-03-17	- BHIA	🚊 Cianton WerTR Effluent	÷2169348	0.144594	1 OT FULLE	ALK_W COND PH_LAS				
		Clanton WindTP Efficient	мареода	C OMPRA	2 BIOTOXHIGALINS	alotox_u				

Relinquished by: (signed) Date/Time	Received by (signed) Date/Time	Λ .
0- 11-11-11-11-11-11-11-11-11-11-11-11-11	Bas 8117 11617 1813	Air Bill #:
1 / / / / / / / / / / / / / / / / / / /	1 /10/ Cl full 110/1	/// /
19. 011= 111 m 1:11"	· ' /	Method of Shipment; A AMA
2 /160 X/J / 11-1.17 1193	2	
		Received By Lab:
3	3	
		5 Date/Time 11/0/17 4.4.9.5
4	4	y y y

7	
	,

TTL WORK

ORDER NUMBER

171106019

Composite Sample Info

Sheet	of	1
411000	 -	

	~1	-	-	
٠,		ш	н	

City of Clanton - WAVTP

Contact:

Mr. Anthony Robinson

Mailing Address:

1574 County Road 51

City, State, Zip:

Clanton AL 35046

Phone No.:

(205) 755-2380

Sampled By:

chient

Project ID:

BIO-Clanton 1

Project Name:

WWTP Biotox Day 1

+ axiche

Sample TONICH

End 11-06-17

DATE/TIME

Sample + 1xi city

Start 11-05-17 - 80147

Sealed for Shipping By:
 C Seal Applied Yes_

4. Custody Seal Intact Upon Receipt by Laboratory: Yes____

5. Condition of Contents:

7. Reporting Status: Routine; _____; Rush By* _____

Sample Security Requirements

8. Client P.O. #

6. Comments:

1. Condition of Contents:

Ligitor Marie AAAA I L. Biotox DBA J				6. Client P.O. #			
Date	Time	Sample ID/Description	Sample Type	Semple Method		Sample Containers	Analysis Parameters
1-08-17	. 8:45	instream	Aqueous	GRAB	1	1/2 PT PL HNO3	HARD_W
1-08-17	- 8014	Ciznton WWTP Effluent	odneone	COMP24	1	1/2 PT PL HNO3	200 7PR HARD_W
1-03-17	- 8114	Clamon WWTP Emuent	Aqueous	COMP24	1	GT PLNP	ALK_W COND PH_LAB
	-	Clamon WWTP Effluent	Aqueous	GOMP24	2	SIOTOX-1GAL NP	BIOTOX_C

Relinquished by: (signed) Date/Time	Received by (signed) Date/Time	a Air Bill #:
2 Tan SU - un 11-6-17 1:4	5 2	Method of Shipment:
3 <u></u>	3	Received By Lab:
ಕ	4	To Date/Time (40/17 124)

TTL WORK

171108059

Composite Sample Info

	San	ple	Security	Requirements	
--	-----	-----	----------	--------------	--

_		
C	lient:	

City of Clanton - 15 WTF

Contact:

Mr. Anthony Rosinson

Mailing Address: 1571 County Road 51

City, State, Zip:

Clanton AL 35046 (205) 755-2380

Phone No.: Sampled By:

CLIUN

Project ID:

810-Clanton 23

Project Name:

MAMTE Biotox Day 2-3

ORDER NUMBER

1. Condition of Contents: 2. Sealed for Shipping By:

°C Seal Applied Yes_

4. Custody Seal Intact Upon Receipt by Laboratory:

5. Condition of Contents:

7. Reporting Status: Routine; : Rush Bv*

8. Client P.O. #

			A P. A. B. Street Property and A. Street, Co.		5. 516H 1.5. II				
	Date	Time	Sample ID/Description	Sample Type	Sample Method	Sample Containers	Analysis Parameters		
(1-08-17	7 - 800	Clanten WWTF Effluent	Addebus	COMPRA	1 100 PT PLHNOS	260 7FB (HABO JAY		
-	11-03-1	7-8/1	Clanton WWTP Enluent	Aqueous	COMP24	1 OT PINE	ALK_W/, GOND, Ph_LPB		
_	11-08-1	7 - 841	Clanton VANATE Effluent	2006003	CICMP24	1 BIDTOX-1GALMP	BLOTON		

က္က Relinquished	by: (signed) Date/Time	Received by (signed) Date/Time	
SFE	m MM 11-8-17 10:20	Thm Set ma 11-8/7 10:20	Air Bill #:
RANSI 1	215 mx 1/-8-17 1:15		Method of Shipment:
£ 2 ///	2 kg /m (1-8-1) 1.13	2	Received By Lab:
O 3 .		3	a received by Lau.
ਰ		4	To Date/Time

7	7	

Phone No.: Sampled By: Project ID:

LIMS Chain of Custody Form

		Sneet	
ماء	Coounity	Domisinamana	

			LING CHair of Custody Forth		Composite Sample Into	/// Joannip
					1 .	Samp
Client:	**	. at 1954	المسر مسر المسر الراب المار الراب الم	Sample	TEXICITY	1. Condition of Contents:

Contact:

Mr. Anthoni, Resinson

Mailing Address: 4572 County Road 93 City, State, Zip:

Ciarton PL 35044

BIC-Clanton 23

ORDER NUMBER

TTL WORK

171108059

2. Sealed for Shipping By:

°C Seal Applied Yes_ 3. Initial Contents Temp.:

4. Custody Seal Intact Upon Receipt by Laboratory:

5. Condition of Contents:

7. Reporting Status: Routine; _____ ; Rush By*

ſ	Project Name: Stylend Figure 510to Alliand 1944			, ,	DATE/TIME	8. Client P.O. #		
	Date	Time	Sample ID/Description	Sample Type	Sample Method	Sample Containers	Analysis Parameters	
11	-08-17	7 - 80m	Cignton wANTE ERGen	K0340 G	771	1 12 PT P. HUCO	productive evening	
1.	1-03-17	7-821A	(a Cleater Provide Efflown		CHARLE	CT CLYF	Hard And to Great Permitted \$2	
1.	1-08-1	7 - 8/1/2	© Gramet (1.5 mm #ffsuent	ನಡೆಕೆ 11	COMPS:	D BOLON-1897 AL	SHOTOH ID	

SS.	Relinquished by: (signed) Date/Time	Received by (signed) Date/Time	
Ë	1 / m / M 11:8-17 10:20	Then 815 mm 11-8-17 10:00	3 Air Bill #:
SW	1 10.20		
TR/	2/1m 1/1/8-17 1:15	/	Method of Shipment:
δ	2 / / / / / / / /		Received By Lab:
5	3.	3	neceived by Lab.
ž			Date/Time 11-8-)) 13:1
_	A	4	

Received by (signed) Data/Time

Composite Sample Info

Sample Security Requirements

°C Seal Applied Yes

Client:	

City of Clariton - WAATE

Contact:

Mr. Anthony Robinson

Phone No.:

Sampled By:

Project ID:

Mailing Address: 1574 County Road 51

City, State, Zip: Clanton, AL 35015

(205) 755-2380

8/O-Clarkon 23

12:00

TTL WORK ORDER NUMBER 171110022

4. Custody Seal Intact Upon Receipt by Laboratory: 5. Condition of Contents:

Rush By 7. Reporting Status: Routine;

6. Comments:

1. Condition of Contents:

2. Sealed for Shipping By:

3. Initial Contents Temp.:_

Project Name: WANTE Boto / Del 2-1				DATE/TIME 8. Client P.O. #			
Date	Time	Sample ID/Description	Sample Type	Sample Method	Sample Containers	Analysis Parameters	
11-00-	17-801	Clanton MANTE Effluent	- q0@06/a		1 10 PT PL HNOS	W_DRAH JART 002	
11-10-1	17 - 811	G Clamon PAVATE EMbent	Aggeogs	COMPA	1 (27 (2) N) D	ALK, W. CORO PHILAR	
11-10-	17 - 800	Clanton WWTP Effluent	: acuecus	COMP24	2 BIOTOX-1GAL NE	BIOTOX_S	

Relinquished by: (signed) Date/Time	Received by (signed) Date/Time	. // /
1 1 11.10.17	Than Ill Dung 1610-17 10:00	S Air Bill #:
2 Mas St July 11-10-17 1:08	2	Method of Shipment:
3 .	3	Received By Lab:
3	4	Date/Time 1//10/17 1:0

7	7	
		A

LIM	S	Cha	in i	of i	Cue	todv	Fo	١rm
PILIA		viia		יוט	vuo	wuv		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Composite Sample Info

Sample Security Requirements

Chy of Chargon and fina

toctictx

1. Condition of Contents:

Contact:

hir drings Enginees

2. Sealed for Shipping By:

3. Initial Contents Temp.:

Mailing Address: 1571 1000 10 Road 01

°C Seal Applied Yes

Rush By

City, State, Zip:

TTL WORK ORDER NUMBER 171110022

4. Custody Seal Intact Upon Receipt by Laboratory:

Phone No.:

5. Condition of Contents: _

Sampled By:

6. Comments:

Project ID:

7. Reporting Status: Routine;

Project Name:

2-5-TW (3-0-0-11 - 2-3-

8. Client P.O. #

Date	Time	Sample ID/Description	Sample Type	Sample Method	Sample Containers	Analysis Parameters
11-00-	(7-800)	€ Charties of sittle diffuent	美国企业	50000	1 13 27 32 66 23	000 TTV 43 0
11-10-	(7 - 811)	Charton - VACE Efficant	4.554 7.75	0.0045.24	t granga	AND CONTRACTOR
11-10-	11 - 800	E Clanton YAA TH Etilisen:	ACUEFLE	J 1977#23	: potex-lear #=	BICTOK_C

Relinqu	ished by: (signed) Date/Time	Received by (signed) Date/Time	11
1	() in /1.10-17	1 Kar Elf Jui 11-10-17 10:00	- Air Bill #:
E 2/	Par est 11-10-17 1:08	2	Method of Shipment:
6 3 ·		3	Received By Lab:
90 4 ———		4	Date/Time

ATTACHMENT 3 REFERENCE TOXICANT DATA

Raw Data and CUSUM charts on file with ADEM.

Discharger: Clanton Test Dates: 11/07/17-11/14/17

Location: WWTP Effluent

CERIODAPHNIA REPRODUCTION

	(CONTROL		EFFLUENT
		12 5 39 18 21 29 5 1 22 25		16 10 29 10 6 14 23 22 10
MEAN		17.7		14.9
STANDARD DEVIATI	ON	12.01		7.48
COEFFICIENT OF VARIATION		67.85		50.17
SHAPIRO-WILKS	Calculated W			Critical W
	0.980 THE DATA A USE t - TEST		> IALLY DISTR	0.868 IBUTED
F - TEST	Calculated F			Critical F
	2.58		<	6.54
	VARIANCES	EQUAL, U	JSE EQUAL V	'ARAINCE t - TEST
t - TEST	Calculated t			Critical t
	0.626		<	1.743

DATA SETS ARE NOT SIGNIFICANTLY DIFFERENT

Discharger: Clanton

Test Dates: 11/07/17-11/14/17

Location: WWTP Effluent

FATHEAD MINNOW GROWTH

		CONTROL	_	EFFLUENT
		0.2427 0.2753 0.2440 0.2527		0.2627 0.2760 0.1707 0.1787
MEAN		0.2537		0.2220
STANDARD DEVIATION	NC	0.0151		0.0550
COEFFICIENT OF VARIATION		5.9564		24.7852
SHAPIRO-WILKS	Calculated \	N		Critical W
	0.953		>	0.749
F - TEST	THE DATA		MALLY DIST	RIBUTED
F - 1L31	Calculated F	=		Critical F
	13.26		<	4 7.47
	VARIANCE	ES EQUAL,	USE EQUAL	VARAINCE t - TEST
t - TEST	Calculated t	t		Critical t
	1.110		<	1.943

DATA SETS ARE NOT SIGNIFICANTLY DIFFERENT

Discharger: Clanton

Test Dates: 11/07/17-11/14/17

Location:

WWTP Effluent

FATHEAD MINNOW SURVIVAL

	(CONTRO	L	EFFLUENT
		1.303 1.202 1.441 1.441		1.303 1.202 1.202 1.024
MEAN		1.347		1.183
STANDARD DEVIAT	ION	0.117		0.116
COEFFICIENT OF VARIATION		8.656		9.796
SHAPIRO-WILKS	Calculated W			Critical W
	0.888		>	0.749
	THE DATA A USE t-TEST	RE NORI	MALLY DISTR	BUTED
F - TEST	Calculated F			Critical F
	1.01		<	47.47
	VARIANCES	EQUAL, I	JSE EQUAL V	'ARAINCE t - TEST
t - TEST	Calculated t			Critical t
	1.997		>	1.943

DATA SETS ARE SIGNIFICANTLY DIFFERENT



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT TOXICITY TEST REPORT SUMMARY

1. GENERA NPDES I		/IIT NO.:	AL005	1631		DS	SN:		0	01		COUNT	Υ: (Chilton C	ounty		
		City of Clan															
Facility N						lanton, Alaba											
Agent su	bmitti	ing Repor	t: Ci	ty of Cla	nton	, 1574 Count	y Road	51, Clar	ton	, Alabar	ma 3	35046					
			/ Test(s)	: _]	ΠL,	Inc., 3516	Gree	nsboro	Αv	e., Tus	scal	oosa, AL	35403				
Months 7			Test(s)	Require	ad fo	or the Mon	th of						Novembe	г			
Schedule			Yes			No	ui Oi.	Acce	ler	ated Te	est(es	-	No		Χ
		est Numb			•	of						Schedule	_	Date:		_	
Test Type	e Red	quired:				te Screeni				_			-Hr Acu		_		
			Short-	erm Cl	nron	ic Screeni	ng: 🔌	<u> </u>		_		Short-teri	n Chroi	nic Defi	nitive: _		
	Tes	t Organis	m: <i>Pime</i>	phales	pro	melas			Т	est Or	dan	nism: Ceri	odaphn	ia dubia	3		
Sam	Date	:/Time S	tart	Date/T		Ended	C	ontrol	7/	Date/Tim		Start	Date/T		Ended	Co	ontrol
No.	MM/		H:MM	MM/DI				Valid	1	MM/DD/\		НН:ММ	MM/DI		H:MM		/alid
1	}	11/06/18, 1	3:15	11	1/13/	18, 14:45	+	Yes	╀	11/0	6/18	1, 13:15	11	/13/18, 1	14:40	· '	res
0.4	01.18	41445				00055111	NO T	-0.						***			
2A.	SUI	MMARY C	PERESU	JLISF	OR	SCREENI	NG II			Manahaa							 -1
Test	Eff.		(1)			<u> </u>	(2)	16	est	Number		(3)			(4)		
Org.	Con	c. Sur	Rep	G	iro	Sur	Rep	Gr	0	Sur		Rep	Gro	Sur	Rep		Gro
C.d. P.p.	75% 75%				ass	 		-								+-	
[r.p.]	137	0 1 833		1 10	133									-			
2B.			OF RES	JLTS F	OR	DEFINITI	VE TE	ST:									
Test Org	anism			Test	Solut	ion Concentr	ation (%	6)	_		-	LC50	NOEC		Not Deter	mined	
									+		\dashv						
																···	
3.						UNDILUTE					()					1	
Sample ID		pH s.u.	Aikal mg/L C		На	rdness(eff) mg/L	Spec	cona s/cm	Н	ardness mg/L		'					
1		7.91	10	7		90.5		74		64.2			37.8				
2	-	7.83 7.93	10			90.6 87.3	70 54										
		7.50	1 13					Facilitie	s O	nly	_						
Sample II) A	krsenic (g/L)	Cad	ium (g/L)	Chromium (g	g/L)	Copper	(g/	(L)	Le	ad (g/L)		Hexava	lent Chron	nium (g/L)
Sample II) N	Mercury (g/L) Nicl	el (g/L)	\dashv	Silver (g/L)		Zinc (g.	/L)		To	tal Cyanide	(g/L)	Other(s) (g/L)		
Chemica	Ana	lysis Perf	ormed B	y (LAB):	TTL, Inc.											
Instantan	eous	Flow:	(1)			GPM											
Total 24-	Hour	Flow:	(1)			MGD)	(2)	_			MGD		(3)			MGD
Commen	ts:																
						ere prepared unde											
submitted is, to	the best	of my knowled				the person or pe d complete. I am											
imprisonment fo	or ro IOWII	ry violations.															
SIGNATI	JRE (OF RESP	ONSIBL	E OFF	ICIA	\L:							D.	ATE: _			

Facility Name:	Clanton WW	TP TP		NPDES	; #: _	AL005	4631 DSN	: 001	Date:		12/01/18
4. SAMPL	E COLLECT	ION:									
Split Samples:	N/A	<u> </u>	Yes	(explai	in)				·		
Samples Collec	ted as Spec	ified in the N	IPDES P	ermit: Y	es	Х	No (exp	olain)			
Receiving Wate	r: Walnut	Creek					Desi	gn Flow:	Monitor	(N	(IGD)2.25
Sample ID	MM/DD/YY	Sample(s) Co HHMM -		ННММ		rival p (C)		Used in MM/DD/YY	Test(s) - MM/DI	D/YY	
11		4/18, 8:00 – 11			C	.8		11/06/18	11/07/18		
2		6/18, 8:00 – 11				.5	ļ		- 11/09/18		
3	11/0	8/18, 8:00 – 11	/09/18, 8:0	U).1		11/10/18	<u> </u>		
5. CONTR	ROL / DILUT	ION WATER	₹:		-,						
Туре	Prepared MM/DD/Y			n Use DD/YY			Initi	al Water Chemi	stries		-
	101101151511		IVIIVA	50,11	Ha	rd	Alk.	pH	Cond	—	@ °C
20%DMW	11/01/18	3	11/0	06/18		0	60	8.1	184	·	25.1
								-			
6. TOXICI	TY TEST IN Organism Age		Orga	anism urce		····	Test S	Solution Concen	trations (%	6)	
Pp	<48 hrs			systems, Inc		00	75			-	
Cd	<24 hrs		In-house	e Culture		00	75				
Test	1	Test Vessel		Vessel Vol. (mL	١		Solution Vol. (mL)	Org. / Te			eplicates er Conc.
Species	1	Туре	_		, 	•					
Pp Cd	4	astic Beakers astic Beakers		600 30			300 15	15 1			10
		actio Dodinoro								······································	
Test Specie	es	Temp. Range	(C)	D.O. Rang	e (mg/l	_)	pH Rang	e (mg/L)	Light In	tensity	Avg. (ft-c)
Pp		24.2 – 26.		6.6 -				- 8.2		75	
Cd		24.1 – 26.	0	7.7 –	8.3		7.9 -	- 8.4		75	
7. FEEDIN	1G:										
Not Fed:		Fed Dail	y: <u>X</u>		Fed	Irregu	lar:	(Explai	n in com	meni	s below)
Brine Shrimp:	Fed	0.15	mL Sus Larvae	spension of N	lewly	Hatch	ed	2	Times I	Daily.	
YCT:	Fed	0.1	-	spension Cor	ntainir	ıg	_	1.8	mg/L T	SS D	aily.
Algae:		0.1		spension Cor			-	3.0x10 ⁷			nL Daily.
COMMENTS:											
					·						

Facility	Name: Clanton			NPDE	S#: <u>AI</u>	.0054631	DSN: _	001 [Date: _	12/01/18
8.	REFERENCE T	OXICAN	T TESTS:							
Toxical	nt: Potassium	Chloride	, KCI	Source:	Omnipu	r Lot# UK2	2FZEMS	_ CAS#	#: <u>7447</u> -	40-7
Solutio	n concentration u	nit:	mg/L X	g/L		%		other (spe	ecify):	
Test Org.	Test Date MM/DD - MM		Control Water	,			est Solution nt. to Highest		ons	
Pp Cd	10/02/18 - 10/ 10/16/18 - 10/		20%DMW 20%DMW	00	125 62.5	250 125	500 250	. 1000 500	2000	
cu	10/10/10 = 10/	23/10	20/60/000		02.5	120	200	1 000	1 1000	
Test Org.	Results		95% Confidence Inte	erval	Uppe		CUSUM Cha (This Test)	art Control Li	mit	Number (N)
Pp Cd	784 184		798 - 574 196 - 167				838 - 525 177 - 121			20
9. 9.A. None.		Standa	rd Test Condition		-					
9.B. None.		•	ons or Test Modi	fications:						
				· · · · · · · · · · · · · · · · · · ·						
10.	Physical, Chemi	Chain-o cal, and	TTACHMENTS: f-Custody Forms Biological Meast							
	Toxicity Tests D	ata.								
COMM The raw	ENTS: reference toxicant da	ta is on file	e with ADEM.							
			· · · · · · · · · · · · · · · · · · ·	 					 -	· · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·							

Facility Name:	Clanton WWTP	NPDES #:	AL0054631 [OSN:001	Date: <u>12/01/18</u>
11.C. CHRON	IC SCREENING TOXICITY TES	TS RESULTS (Free	shwater):		
	SM: Ceriodaphnia dubia Used to Begin the Test Within 8 CONTROL Females Produce The		Age ?:	Yes: X Yes: X	No:
	CITY INDICATED:	YES	NO	X	
NO SURVIVAL	STATISTICAL ANALYSIS NECE	SSARY:	_		
CONTROL(%)	24h 100 48h 100 EN			h <u>100</u> 48	h <u>100</u> END <u>90</u>
Fishers Exact Te		B = 10		a = 10	b = 9
REPRODUCTIO					
	CITY INDICATED:	YES	NO .	X	
	TION STATISTICAL ANALYSIS				
CONTROL:		UENT: 25.1			
	uted: YES X	NO			
	0.822 Critical	Value: 0.868		(Parametri	C)
Equal variance:		Unequal variance:			
F Statistic:		Critical F:			
t - Test Statistic:		Test Critical Value:			(Non Donous tris)
COMMENTS:	ım: <u>83.00</u> # Reps.:	10	Critical Rani	k Sum: 82.00	(Non - Parametric)
COMMENTS.	/				
TEST ORGANIS	SM: Pimephale promelas				
SURVIVAL	ini. I imopilato promotas				
	CITY INDICATED:	YES	NO	X	
	STATISTICAL ANALYSIS NECE				
CONTROL(%)		D 98.3 EFFLU		h 100 48	h 100 END 100
CONTROL(%) Normally Distribution	24h <u>100</u> 48h <u>100</u> EN		ENT(%) 24	h <u>100</u> 48	h <u>100</u> END <u>100</u>
, ,	24h 100 48h 100 EN YES	NO	ENT(%) 24	h <u>100</u> 48 (Parametri	
Normally Distribu	24h <u>100</u> 48h <u>100</u> EN uted: YES	NO			
Normally Distributes Test Statistic:	24h <u>100</u> 48h <u>100</u> EN uted: YESCritical	NO Value:			
Normally Distributes Statistic: Equal variance:	24h <u>100</u> 48h <u>100</u> EN uted: YESCritical	NO Value: Unequal variance:		(Parametri	c)
Normally Distributes Statistic: Equal variance: F Statistic: t - Test Statistic:	24h <u>100</u> 48h <u>100</u> EN uted: YESCritical	NO Value: Unequal variance: Critical F: Test Critical Value:			c)
Normally Distributed Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sugrowth	24h 100 48h 100 EN yes Critical t- im: # Reps.: (Mean Dry Weight - mg)	NO Value: Unequal variance: Critical F: Test Critical Value:	Critical Rank	(Parametri	c)
Normally Distributed Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sugrowth CHRONIC TOXI	24h 100 48h 100 EN yes	NO Value: Unequal variance: Critical F: Test Critical Value: YES		(Parametri	c)
Normally Distributed Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sunder CHRONIC TOXI NO GROWTH STATES	24h 100 48h 100 EN yes Critical t-im: # Reps.: (Mean Dry Weight - mg) CITY INDICATED:	Value: Unequal variance: Critical F: Test Critical Value: YES SARY:	Critical Rank	(Parametri	c)
Normally Distributes Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sugrowth CHRONIC TOXI NO GROWTH S CONTROL:	24h 100 48h 100 EN yes Critical t- Imm: #Reps.: (Mean Dry Weight - mg) CITY INDICATED: TATISTICAL ANALYSIS NECES 0.6150 EFFL	Value: Unequal variance: Critical F: Test Critical Value: YES SARY: UENT: 0.5450	Critical Rank	(Parametri	c)
Normally Distributes Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sugrowth CHRONIC TOXI NO GROWTH S CONTROL: Normally Distributes	24h 100 48h 100 EN yes	Value: Unequal variance: Critical F: Test Critical Value: YES SARY: UENT: 0.5450 NO	Critical Rank	(Parametrio	(Non - Parametric)
Normally Distributes Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sugrowth CHRONIC TOXI NO GROWTH SCONTROL: Normally Distributes Statistic:	24h 100 48h 100 EN yes Critical t- im: # Reps.: (Mean Dry Weight - mg) CITY INDICATED: TATISTICAL ANALYSIS NECES 0.6150 EFFL uted: YES X 0.933 Critical	Value: Unequal variance: Critical F: Test Critical Value: YES SARY: UENT: 0.5450 NO Value: 0.749	Critical Rank	(Parametri	(Non - Parametric)
Normally Distributes Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sugrowth CHRONIC TOXI NO GROWTH S CONTROL: Normally Distributes Statistic: Equal variance:	24h 100 48h 100 EN yes	Value: Unequal variance: Critical F: Test Critical Value: YES SARY: UENT: 0.5450 NO Value: 0.749 Unequal variance:	Critical Rank	(Parametrio	(Non - Parametric)
Normally Distributed Test Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sugrowth CHRONIC TOXI NO GROWTH SCONTROL: Normally Distributed Statistic: Equal variance: F Statistic:	24h 100 48h 100 EN yes Critical t- im: #Reps.: (Mean Dry Weight - mg) CITY INDICATED: TATISTICAL ANALYSIS NECES 0.6150 EFFL ited: YES X 0.933 Critical X 7.92	Value: Unequal variance: Critical F: Test Critical Value: YES SARY: UENT: 0.5450 NO Value: 0.749 Unequal variance: Critical F:	Critical Rank	(Parametrio	(Non - Parametric)
Normally Distributes Statistic: Equal variance: F Statistic: t - Test Statistic: Sample Rank Sugrowth CHRONIC TOXI NO GROWTH S CONTROL: Normally Distributes Statistic: Equal variance:	24h 100 48h 100 EN yes Critical t- im: #Reps.: (Mean Dry Weight - mg) CITY INDICATED: TATISTICAL ANALYSIS NECES 0.6150 EFFL ited: YES X 0.933 Critical X 7.92 1.862 t -	Value: Unequal variance: Critical F: Test Critical Value: YES SARY: UENT: 0.5450 NO Value: 0.749 Unequal variance:	Critical Rank	(Parametric	(Non - Parametric)

Summary Data for Ceriodaphnia Survival and Reproduction Test

Discharger: Location:	Clanton WWTP Effluent		Test Dates: Analyst:	11/06/18-11/13/18 MMC, CRS, TRT, TLM, A	ΕB
Treatment		Control		Effluent	
No. Live Adults	Start 24 Hours 48 Hours End	10 10 10 10		10 10 10 9	
Survival (%)	24 Hours 48 Hours End	100.0 100.0 100.0		100.0 100.0 90.0	
Mean number young/adult	of	30.9		25.1	
Standard Devi	ation	8.94		10.89	
Variance		79.88		118.54	
Coefficient of Variation		28.92		43.38	
Physical/Chen	nical Data	CONTROL		EFFLUENT	
Temperature °C	Avg Min Max	25.0 24.2 26.0		25.0 24.1 26.0	
D.O. mg/L	Avg Min Max	8.0 7.2 8.3		8.1 7.7 8.3	
pH s.u.	Avg Min Max	8.2 8.0 8.3		8.2 7.9 8.4	
Alkalinity	Mean	60		153	
mg/L Hardness	Mean	80		182	
mg/L Conductivity	Mean	184		507	
umhos/cm Light Intens. ft-c	Mean	75		75	

Summary Data for Fathead Minnow Larval Survival and Growth Test

Discharger: Location:	Clanton WWTP Effluent		Test Dates: Analyst:	11/06/18-11/13/18 MMC, CRS, TRT, TLM, AE	В
Treatment		Control		Effluent	
No. Live Larvae	Start 24 Hours 48 Hours End	60 60 60 59		60 60 60	
Survival (%)	24 Hours 48 Hours End	100.0 100.0 98.3		100.0 100.0 100.0	
Mean dry wgt. of larvae (mg)		0.6150		0.5450	
Standard Devi	ation	0.0708		0.0252	
Variance		0.0050		0.0006	
Coefficient of Variation		11.52		4.62	
Physical/Chem	ical Data	CONTROL		EFFLUENT	
Temperature °C	Avg Min Max	24.9 24.4 26.0		25.0 24.2 26.0	
D.O. mg/L	Avg Min Max	7.7 6.7 8.3		7.8 6.6 8.3	
pH s.u.	Avg Min Max	8.0 7.8 8.2		8.0 7.9 8.2	
Alkalinity mg/L	Mean	60		153	
Hardriess mg/L	Mean	80		182	
Conductivity umhos/cm	Mean	183		498	
Light Intens. ft-c	Mean	75		75	

FATHEAD MINNOW SURVIVAL AND GROWTH DATA

LOCAT	T\TOXICA FION/SOU START: END:		Clanton WWTP E	ffluent		ANALYST: TEST CHAMBER: G / P FOOD: 0.15 TEST TEMP.(mg C): ORGANISM AGE:			MMC, CRS, TRT, AEB, TLM 600 ml Brine shrimp 2 25 +/- 1 <24hrs		
DILUTI	ON WATE	R:	20% DMW			ORGANISM	AGE:	<24	hrs		
Sample	e: Clanton	75%		_	Chemical/	Physical Data Day	30.31				
		1	2	3	4	5	6	7	8	9	_
Temp	Initial	26.0	25.0	25.0	25.0	25.0	25.0	25.0			
	Final	24.9	24.2	24.9	25.0	24.9	25.0	25.0			_
D.O.	Initial	8.3	8.3	8.3	8.3	8.3	8.3	8.3			
1194	Final	7.8	7.5	7.3	7.3	7.1	6.6	7.3			_
рН	Initial	8.0	8.0	7.9	8.0	8.2	8.0	8.1			
I,U.	Final	8.1	8.0	8.0	8.1	8.0	7.9	8.1			
Alkalini mg/r as Ca	ty	150		150		160					
mg/r as Ca Hardne		180		185		180					
mg/i as Ca Conduc	CUS	466	473	571	574	450	456	453			-
Chlorin		<0.01		<0.01		<0.01					
mg/l Light In	tensity	73	79	71	73	72	74	84			-
pH - Ur	ndiluted	7.7	7.6	7.8	7.7	7.7	7.7	7.8			7
s.u. Analyst/tim	n Initial	*	MMC,TRT,TLM 1400	TRT/TI M 1450			TRT/TLM 125		5 Daily elec	tronically	ontered
Analyst/tim		TRT 1525	TRT 1555	TRT 1420	MMC 1405	TRT 1410	TRT 1450	TLM 1445	5 Daily elec	domoany	Cincied
Survive							1111 1100	TEM 1440			
OUI ALAS	n Cata		Start (ON)	1	2	Day 3	4	5	6	7 (SN)	-
Replica	ite	1	15	15	15	15	15	15	15	15	
		2	15	15	15	15	15	15	15	15	
Organis	sm age	3	15	15	15	15	15	15	15	15	
<	24hrs	_ 4	15	15	15	15	15	15	15	15	
Feeding	g time am			800	800	800	1045	1000	730	NF	1
Renewa			1420	1440	1525	1350	1325	1335	1415	1350	
Feeding	g time pm		1600	1600	1600	1600	1430	1420	1600		1
Analyst	-		MMC/TRT/TLM	TRT	TRT	TRT	MMC	TRT	TRT	TLM]
Drying	Date:	11/13/2018 11/14/18		Time in:	Growth Da 1500 Drying tem	Time out:	11/14/18 60	1500 Analyst:	Total di	ying time	24.0
Rep	Boat	Dry Wgt		Dry wgt of bo	oat	Total Dry Wo	jt .	SN# of	Mean dry		1
#	#	of Boat (mg)	0.40	and larvae (r		of Larvae (m		larvae	of ON# la		-
1	9/4		9.10	1317			.10	15		400	-
2			4.40	1292		1	.80	15	_	200	AVG (m
3			7.00 4.40	1302			.70	15 15		800 400	0.545
Comme	1	128	7.70	1302			.10	10	0.5	100	0.545

CERIODAPHNIA SURVIVAL AND REPRODUCTION DATA

LOCAT	NTOXICA ION/SOU	RCE:	Clanton WWTP Effi	uent		TEST CHAMB FOOD:	0.10	ml YTC	1.8	ml g/I TSS	
TEST S TEST E		11/06/18 11/13/18				FOOD: TEST TEMP.(r	0.10	ml Algae	3.0x10 ¹ 25 +/- 1	cell/ml	
	ON WATE		20% DMW			ORGANISM A		<24 hrs	within 6 h	rs of san	ne age
Sample	: Clanton	75%				Physical Data					
		1	2	3	4	Day 5	6	7	8	9	
Temp	Initial	26.0	25.0	25.0	25.0	25.0	25.0	25.0			
C	Final	24.9	25.2	25.2	24.5	25.0	25.0	24.1			
D.O.	Initial	8.3	8.3	8.3	8.3	8.3	8.3	8.3			
mgv	Final	8.0	8.2	8.1	7.9	8.0	7.7	7.9			
pH s.u.	Initial	8.0	8.0	7.9	8.0	8.2	8.0	8.1			
š.u.	Final	8.3	8.2	8.2	8.3	8.4	8.3	8.3			
Alkalinit	tv	150		150		160					
mgn as cac Hardnes	دنڌ	180		185		180					
Conduc	دداد	466	473	571	574	450	456	453			
Chlorine		<0.01		<0.01		<0.01					
mg/i Light In		73	79	71	73	72	74	84			•
pH - Un		7.7	7.6	7.8	7.7	7.7	7.7	7.8			1
s.u. Analyst/time		MMC/TRT/TLM 1315	MMC,TRT,TLM 1400	TRT/TLM 1450	TRT 1240	TRT/MMC 1310		TRT/MMC 1315	Daily elec	tronically	entered
Analyst/time		TLM 1500	TLM 1545	TLM 1430	TRT 1410	TLM 1400	MMC 1410	AEB 1440		,	5,112.52
Soln cha		TLM 1445	TLM 1535	TLM 1415	TRT 1340	TLM 1415	MMC 1355	AEB 1420			
									-		
-		duction Data A34	B48	A15	REPLICA B2	ATES B21	A45	B35	A20	B14	1
Paren	1	2	3	4	5	6	7	8	9	10	Neonates critd
DAY 1				Neonates Bro	Neonates Brd	Neonates Brd	Neonates Brd	Neonates Brd	Neonates Brd	leonates Brd	Time/anist ini. TLM 1445
2	0	0	0	U	0	U	U	U	U	0	IEM 1445
	0	0	0	X	0	0 1	0	0	0	0	TLM 1535
3	0	0	0	0	0	4	0	6	9	0	TLM 1415
4	6	1 5	7	0	5	0	6	0	5	6	TRT 1340
5		2 2	2		2	2	2	2	3	2	
6	10	6	10	0	12	8 3	11	10	12	9	TLM 1415
	17	X	14	0	0	15	16	15	0	0	MMC 1355
7	0	0	0	0	13	0	0	0	0	14	AEB 1420
8											
Total											AVG
Young	33	11	31	0	30	27	33	31	26	29	25.1
		= # of young	f = fourth brood; not cou	ınted				Comments:			
	X = Adult	dead; t killed or lost by tech	y = adult male						72.25.5	1 44 6 25	
	101 7 10100				Dat	la approved by:		Market Williams			

FATHEAD MINNOW SURVIVAL AND GROWTH DATA

TEST E	TON/SOUI START: END: ON WATE	11/06/18 11/13/18				FOOD: TEST T	CHAMBER 0.15 EMP.(rng	R: G / P ml Brine (C):	RS, TRT, / 600 shrimp 25 +/- 1 24hrs	2	_x daily
Sample	: Control				Chemica	al/Physical	Data				
		1	2	3	4	Day 5	6	7	8	9	*
Temp	Initial	26.0	25.0	25.0	25.0	25.0	25.0	25.0			
C	Final	24.5	24.5	24.5	25.0	24.4	24.6	25.0			
0.0.	Initial	8.2	8.3	8.3	8.3	8.3	8.3	8.0			
ngu	Final	8.3	7.4	7.1	7.0	7.2	6.7	6.8			
oH s.u.	Initial	8.2	8.0	8.2	8.0	8.2	8.2	8.2			_
s.u.	Final	8.1	7.9	7.8	8.0	8.0	7.8	7.8			
Alkalinit		60	7.0	60	0.0	60	7.0	7.0			_
ng/i as Cac	วับช										
Hardne:	203	80	400.0	80	405.5	80					-
Conduc Imnos/cm		179	183.6	180	185.9	184.7	187.3	186.6			
Chlorine	Э	<0.01		<0.01		<0.01					_
ight Int	tensity	73	79	71	73	72	74	84			

.u.		8.2 MMC/TRT/TLM 1315	8.0 MMC,TRT,TLM 1400	8.2 TRT/TLM 1450	8.0 TRT 1240	8.2 TRT/MMC 1310	8.2 TRT/TLM 125	8.2 5 TRT/MMC 131	5 Daily elec	ctronically	entered
i.u. Analyst/time Analyst/time	e Initial	MINIC/TRT/TLM 1315	MMC,TRT,TLM 1400	TRT/TLM 1450	TRT 1240 MMC 1405	TRT/MMC 1310 5 TRT 1410 Day	TRT/TLM 1250	5 TRT/MMC 131	5		entered
i.u. Analyst/time Analyst/time	e Initial e Final I Data	TRT 1525	TRT 1555	TRT/TLM 1450 TRT 1420	TRT 1240 MMC 1405	TRT/MMC 1310 5 TRT 1410 Day 3	TRT/TLM 1254	5 TRT/MMC 131	6	7 (SN)	v entered
a.u. Analyst/time Analyst/time	e Initial e Final I Data	MMC/TRT/TLM 1315 TRT 1525	TRT 1555 Start (ON)	TRT/TLM 1450 TRT 1420 1 15	TRT 1240 MMC 1405 2 15	TRT/MMC 1310 5 TRT 1410 Day 3	TRT/TLM 1250 / 4 14	5 TRT/MMC 131	6 14	7 (SN)	v entered
a.u. Analyst/time Analyst/time Survival	e Initial e Final I Data te	TRT 1525	TRT 1555 Start (ON) 15 15	TRT/TLM 1450 TRT 1420 1 15 15	TRT 1240 MMC 1405 2 15 15	TRT/MMC 1310 5 TRT 1410 Day 3 15 15	TRT/TLM 1254 TRT 1450 4 14 15	5 TRT/MMC 131 5 TLM 1445 5 14 15	6 14 15	7 (SN) 14 15	v entered
.u. Analyst/time Analyst/time Survival Replicat Organis	e Initial e Final I Data te	MMC/TRT/TLM 1315 TRT 1525	TRT 1555 Start (ON)	TRT/TLM 1450 TRT 1420 1 15	TRT 1240 MMC 1405 2 15	TRT/MMC 1310 5 TRT 1410 Day 3	TRT/TLM 1250 / 4 14	5 TRT/MMC 131	6 14	7 (SN)	v entered
Analyst/time Analyst/time Survival Replicat Organis	e Initial e Final I Data te em age	TRT 1525	TRT 1555 Start (ON) 15 15 15	TRT/TLM 1450 TRT 1420 1 15 15 15	TRT 1240 MMC 1405 2 15 15 15	TRT/MMC 1310 5 TRT 1410 Day 3 15 15 15	TRT/TLM 1250 / 4	5 TRT/MMC 131 5 TLM 1445 5 14 15 15	6 14 15 15	7 (SN) 14 15 15	y entered
Analyst/time Analyst/time Survival Replicat Organis <	e Initial e Final I Data te em age 24hrs	TRT 1525	TRT 1555 Start (ON) 15 15 15	TRT/TLM 1450 TRT 1420 1 15 15 15 15	2 15 15 15 15	Day 3 15 15 15 15	TRT/TLM 1254 TRT 1450 4 14 15 15	5 TRT/MMC 131: 5 TLM 1445 5 14 15 15 15	6 14 15 15 15	7 (SN) 14 15 15	y entered
Feeding Renewa	e Initial e Final I Data te em age 24hrs	TRT 1525	TRT 1555 Start (ON) 15 15 15 15	TRT/TLM 1450 TRT 1420 1 15 15 15 15 15	TRT 1240 MMC 1405 2 15 15 15 15 15 15 15 1600	TRT/MMC 1310 TRT 1410 Day 3 15 15 15 15 15	TRT/TLM 1250 / 4	5 TRT/MMC 131 5 TLM 1445 5 14 15 15 15 1000	6 14 15 15 15 15 730	7 (SN) 14 15 15 15	y entered
Analyst/time Analyst/time Survival Replicat Organis Feeding Renewal Feeding	e Initial e Final I Data te em age 24hrs g time am al time g time pm	TRT 1525	TRT 1555 Start (ON) 15 15 15 15 15 15 15 15	TRT/TLM 1450 TRT 1420 1 15 15 15 15 15 15 15 15 15	TRT 1240 MMC 1405 2 15 15 15 15 15 15 15 17 15 15 15 15 15 15 15 17 15 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	TRT/MMC 1310 TRT 1410 Day 3 15 15 15 15 15 15 TRT 15	TRT/TLM 1254 TRT 1450 4 14 15 15 15 1045 1335	5 TRT/MMC 131: 5 TLM 1445 5 14 15 15 15 1000 1325	6 14 15 15 15 15 730 1400	7 (SN) 14 15 15 15	y entered
Analyst/time Analyst/time Survival Replicat Organis Feeding Renewa Feeding Analyst	e Initial e Final I Data te em age 24hrs g time am al time g time pm	TRT 1525	TRT 1555 Start (ON) 15 15 15 15 15 16 MMC/TRT/TLM	TRT/TLM 1450 TRT 1420 1 15 15 15 15 15 15 1600	TRT 1240 MMC 1405 2 15 15 15 15 15 15 15 1600	TRT/MMC 1310 Day 3 15 15 15 15 15 15 TRT 1410 Day 3 TRT Table 15 TRT B00 TRT Data Time out:	TRT/TLM 1250 A 14 15 15 1045 1335 1430 MMC	5 TRT/MMC 1310 TLM 1445 5 14 15 15 15 15 1000 1325 1420 TRT	6 14 15 15 15 15 1400 1600 TRT	7 (SN) 14 15 15 15 15 15	
Analyst/time Analyst/time Survival Replicat Organis -eeding Renewal -eeding Analyst Orying I Weighin	e Initial e Final I Data te am age 24hrs g time am al time g time pm Date: g Date:	TRT 1525 1 2 3 4 11/13/20: 11/14/18 Dry Wgt	TRT 1555 Start (ON) 15 15 15 15 16 1420 1600 MMC/TRT/TLM	TRT/TLM 1450 TRT 1420 1 15 15 15 15 15 15 TRT 1430 TRT Time in:	2 15 15 15 15 15 15 15 15 15 15 15 15 15	TRT/MMC 1310 TRT 1410 Day 3 15 15 15 15 15 17 1800 TRT Data Time out: emp: Total Dry	TRT/TLM 1256 TRT 1450 4 14 15 15 15 1045 1335 1430 MMC 11/14/18 60 Wgt	5 TRT/MMC 131 5 TLM 1445 5 14 15 15 15 15 1000 1325 1420 TRT 3 1500 Analyst:	6 14 15 15 15 15 1600 TRT Total di TRT	7 (SN) 14 15 15 15 NF 1325 TLM Tying time	
Analyst/time Corganis Ceeding Renewa Ceeding Analyst Drying I Veighin Rep #	initial Final Data To a Final Data To a Final Data To a Final To a Fina	TRT 1525 1 2 3 4 11/13/20 11/14/18 Dry Wgt of Boat (r	TRT 1555 Start (ON) 15 15 15 15 16 18 18	TRT/ILM 1450 TRT 1420 1 15 15 15 15 15 15 17 Time in:	2 15 15 15 15 15 15 15 15 15 15 15 0 1600 TRT Growth D 1500 Drying te	TRT/MMC 1310 Day 3 15 15 15 15 15 15 17 1800 TRT Data Time out: mp: Total Dry of Larvae	TRT/TLM 1254 TRT 1450 4 14 15 15 15 1045 1335 1430 MMC 11/14/18 60 Wgt (mg)	5 TRT/MMC 131 5 TLM 1445 5 14 15 15 15 15 1000 1325 1420 TRT 1500 Analyst: SN# of larvae	6 14 15 15 15 15 15 1730 1400 1600 TRT Total di TRT Mean dry of ON# la	7 (SN) 14 15 15 15 15 NF 1325 TLM rying time	
Analyst/time Analyst/time Survival Replicat Organis -eeding Renewa -eeding Analyst Orying I Weighin Rep #	initial Final Data To Data	11/13/20: 11/14/18 Dry Wgt of Boat (r	TRT 1555 Start (ON) 15 15 15 15 15 18 mg) 7.60	TRT/TLM 1450 TRT 1420 1 15 15 15 15 15 15 TRT 1430 1600 TRT Time in: Dry wgt coand larva	2 15 15 15 15 15 15 15 15 15 0 1600 TRT Growth D 1500 Drying te of boat e (mg) 6.90	TRT/MMC 1310 TRT 1410 Day 3 15 15 15 15 15 15 17 1800 TRT Data Time out: Imp: Total Dry of Larvae 9.	TRT/TLM 1256 TRT 1450 4 14 15 15 15 1045 1335 1430 MMC 11/14/18 60 Wgt (mg) 30	5 TRT/MMC 131 5 TLM 1445 5 14 15 15 15 15 1000 1325 1420 TRT 3 1500 Analyst: SN# of larvae 14	6 14 15 15 15 15 15 1600 TRT Total di TRT Mean dry of ON# la 0.6	7 (SN) 14 15 15 15 15 NF 1325 TLM rying time	
Analyst/time Analyst/time Survival Replicat Organis	initial Final Data To a Final Data To a Final Data To a Final To a Fina	11/13/20 11/14/18 Dry Wgt of Boat (r 130	TRT 1555 Start (ON) 15 15 15 15 16 18 18	TRT/ILM 1450 TRT 1420 1 15 15 15 15 15 15 17 Time in: Dry wgt of and larval 131 131	2 15 15 15 15 15 15 15 15 15 15 0 1600 TRT Growth D 1500 Drying te	TRT/MMC 1310 Day 3 15 15 15 15 15 15 17 18 18 18 18 18 18 18 18 18	TRT/TLM 1254 TRT 1450 4 14 15 15 15 1045 1335 1430 MMC 11/14/18 60 Wgt (mg)	5 TRT/MMC 131 5 TLM 1445 5 14 15 15 15 15 1000 1325 1420 TRT 1500 Analyst: SN# of larvae	6 14 15 15 15 15 15 1730 1400 1600 TRT Total draw of ON# la 0.6 0.7	7 (SN) 14 15 15 15 15 NF 1325 TLM rying time	

CERIODAPHNIA SURVIVAL AND REPRODUCTION DATA

-CLIENT\TOXICANT: TEST CHAMBER: G/P Control LOCATION/SOURCE: TTL, Inc. FOOD: 0.10 ml YTC 1.8 g/I TSS 0.10 ml Algae 3.0x10⁷ cell/ml TEST START: 11/06/18 FOOD: TEST TEMP.(rng C): TEST END: 11/13/18 25 +/- 1

DILUTION WATER: 20% DMW ORGANISM AGE: <24 hrs within 6 hrs of same age

Sample	e: Control				Chemica	l/Physical Day	Data			
		1	2	3	4	5	6	7	8	9
Temp	Initial	26.0	25.0	25.0	25.0	25.0	25.0	25.0		
	Final	25.0	25.1	25.1	24.3	25.1	25.5	24.2		
D.O.	Initial	8.2	8.3	8.3	8.3	8.3	8.3	8.0		
mgv	Final	8.0	8.0	8.0	7.8	7.2	7.6	7.7		
pH s.u.	Initial	8.2	8.0	8.2	8.0	8.2	8.2	8.2		
	Final	8.0	8.2	8.2	8.3	8.3	8.2	8.2		
Alkalini	ity	60		60		60				
Hardne	ess	80		80		80				
Conduc	ctivity	179	183.6	180	185.9	184.7	187.3	186.6		
Chlorin	ie	<0.01		<0.01		<0.01				
Light In	ntensity	73	79	71	73	72	74	84		
pH - Ur	ndiluted	8.2	8.0	8.2	8.0	8.2	8.2	8.2		

Analyst/time Initial MINC/TRT/TLM 1315 MINC/TRT/TLM 1450 TRT/TLM 1450 TRT 1240 TRT/MINC 1310 TRT/TLM 1255 TRT/MINC 1315 Daily electronically entered

Analyst/time Final TLM 1500 TLM 1545 TLM 1430 TRT 1410 TLM 1400 MMC 1410 AEB 1440

Soln change time TLM 1425 TLM 1520 TLM 1425 TRT 1400 TLM 1335 MMC 1340 AEB 1435

Surviv	<i>r</i> al	& Rep	rod	uction	Dat	а		REPLIC	CATES						
Pare	ent	A6		A34	4	B48	A15	B2	B21		A45	B35	A20	B14	
		1		2		3	4	5	6		7	8	9	10	Neonates cnto
DAY	1	Neonates 0	Bro	Neonates 0	Brd	Neonates B	Neonates Br	Neonates Br	Neonates I	Brd Ned	onates Brd	Neonates Brd	Neonates Brd	leonates Brd	Time/anist ini.
	2	0		0		0	0	0	0		0	0	0	0	TLM 1520
	3	7	1	0		5	1 0	4			0	7	0	0	TLM 1425
	4	3	2	6	1	0	7	9		1	7	0	7	7	TRT 1400
	5	12	3	9	2	11	13	8 8	12	2	10 2	11	9	7	TLM 1335
	6	0		0			0	0	0		0	20	15	0	MMC 1340
	7	0		18	3	0	19	0	18	3	24	0	0	0	AEB 1435
	8										-				7.22 1400
Total Young	1	22		33		35	39	21	35		41	38	31	14	AVG 30.9

Numbers = # of young f = fourth brood; not counted

X = Adult dead;

y = adult male

M = Adult killed or lost by tech

Data approved by:

9 18 18 17 Inc. 3516 Greensboro Ave., Tuscaloosa, AL 35403, Phone (205) 345-1816, Fax (205) 345-0992

Comments:

//		7
7		
	/ · / · ·	_



At

Sheet	- 1	of	7

Client:
Contact:
Mailing Add
City, State,
Phone No.:
Sampled By
Project ID:

City of Clanton - WWTP

Mr. Anthony Robinson

1574 County Road 51

Clanton, AL 35046

(205) 755-2380

BIO-Clanton 1

TTL WORK ORDER NUMBER 181105036

Composite Sample Info Sample

Start End

1. Condition of Contents: 2. Sealed for Shipping By:

Sample Security Requirements

3. Initial Contents Temp.: °C Seal Applied Yes_ 4. Custody Seal Intact Upon Receipt by Laboratory:

5. Condition of Contents: Good - Ice O . S °C at Tuscaloosa Lab

7. Reporting Status: Routine; ______; Rush By*

Project Name: WW/TP Biotox Day 1			DATE/TIME		8. Client P.O.	#	
Date	Time	Sample ID/Description	Sample Type	Sample Method		Sample Containers	Analysis Parameters
11-05-1	8 - 82	Minstream	,4 <u>ausaus</u>		†	Qt F: HNO3	200 7PR
11-051	8 83	Linsiream	Афиеоца	GRAS	3	1/2 PT PL HNOS	HARD_Vv
11-05-18	- 801	Clanton WW/TP Effluent	Aqueous	GOMP24	;	1/2 PT PL HNOS	209.7PR, HARD_W
11-05-1	8-50	Clanton WWTP Efficient	Adneone	COMP24	1	OT PLNP	ALK W COMD PH_LMB
11-01-1	8- 80	Clanton WWTP Effluent	Aquequa	COMP24	Ž.	610YOX-1GAL NP	ETOTOX_C

3S	Relinquished by: (signed) Date/Time	Received by (signed) Date/Time	
SFE	1 1) ~~ // 11-5-18 11-	1 Flewin Smith 115-18 2:15	Air Bill #:
RAN	2.13		Method of Shipment:
E Y	2 Dewin Smith 11-5-18 4:15	2	< nounc
STO	3	3	Received By Lab:
ਲ	4	4	Date/Time 11 5 - 8 16,11

ADMIN	CONTRA PROPER



Composite	Sample	Info

\	(
	Sheet	_:_	of	_1:

City of Clanton - WWVTP

Contact:

Mr. Anthony Robinson

TTL WORK ORDER NUMBER

181107014

Mailing Address: City, State, Zip:

1574 County Road 51 Clanton, AL 35046

Phone No.:

(205) 755-2380

Sampled By: Project ID:

Delinquiched by (cianod) Deta/Time

Project Name:

Sample Security Requirements

1. Condition of Contents:

2. Sealed for Shipping By: °C Seal Applied Yes_ 3. Initial Contents Temp.:

4. Custody Seal Intact Upon Receipt by Laboratory:

5. Condition of Contents: Good - Ice C at Tuscaloosa Lab 6. Comments:

7. Reporting Status: Routine; ; Rush By'

8 Client PO #

AAAA LE BIOLOX DBA 5-9				G. Glicht L.O. II				
Date	Time	Sample ID/Description	Sample Type	Sample Method	Sample Containers	Analysis Parameters		
11-07-1	8 8:00	Clanton WWTP Effluent	Адиеоия	COMP24	1 1/2 PT PL HN03	200,7PR_HARD_W		
11-07-0	8 800	Clanton WWTP Effluent	Aqueous	COMP24	1 OT PLNP	ALK_W, COND, PH_LAB	4.	
11-874	18 820	.Clanton WWTP Effluent	Aqueous	COMP24	2 BIOTOX-1GAL NF	вютох_с		

æ	Heili I quisited by. (signed) Date/ Time	neceived by (signed) Date/Time	
뽔	1 1) 1 10 1/17/18 8:42	1 Harlan landy 11/7/18 8:42	Air Bill #:
AK			Method of Shipment:
E	2 Harlon Clardy 11/7/18 14,00	2	Wethod of Shipment.
0			Received By Lab:
52	3	3	111711111111111111111111111111111111111
Ö	, , , , , , , , , , , , , , , , , , ,	A	Date/Time
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		Sheet	7	of	7	

	LIN	IS Chain of (
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LIMS Chain of Custody Fo	ri
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	Composite	Sample Info
Sample	Bio	2 12 X
Sample	1/1	

		Sheet	 of	
Sample	Security	Requirements		

Client:	

City of Clanton - WAATE

TTL WORK ORDER NUMBER Start 181109036

1. Condition of Contents: 2. Sealed for Shipping By:

Contact: Mailing Address: Mr. Anthony Regimson

3. Initial Contents Temp.:

1574 County Road 51

C Seal Applied Yes_

City, State, Zip: Clanton, AL 35046 4. Custody Seal Intact Upon Receipt by Laboratory:

Phone No.: (205) 755-2380

Good - Ice 5. Condition of Contents: _

O-1°C at Tuscaloosa Lab

Sampled By:

7. Reporting Status: Routine;

Project ID: BIO-Clanton 23 Project Name: WW/TP Biotox Day 2-3

8. Client P.O. #

6. Comments:

		MAAALI DIOLON DISTA KIIC					
Date	Time	Sample ID/Description	Sample Type	Sample Method	Sample Containers	Analysis Parameters	
11-09-	1,3 - 80.	Clanton WWTP Effluent	.4 gueous	COMES ₇	1 1/2 FT PL BN03	200 7PF , HARD_W	
11-09-	-13-80	Cianton WW/TP Efficient	M.queeus	COMP24	1 QT PLHP	ALK_W/ COND PH_LAB	
11-09-	-15-84	/ Clanton WWTP Effluent	Aquadus	GOIMP24	2 BIOTOX-IGAL MP	BIOTOX_C	

n	Relinquished by: (signed) Date/Time	, , Received by (signed) Date/Time , ,	
Ŧ	$\mathcal{L}_{\mathcal{L}}$	Walson I I Walson	Air Bill #:
7	1	1/1/18 D:00pm 1 Landon Couring for 11/9/18 12:00pm	1 (1) (1)
\$		11/4/10 212	Method of Shipment:
Ξ	2 Landon Couring Tay	1/1/18 J. J. SPM 2	
5			Received By Lab:
ב מ	3	3	a 70 2150
3			Date/Time
╸.		A	0)

ATTACHMENT 3 REFERENCE TOXICANT DATA

Raw Data and CUSUM charts on file with ADEM.

Discharger: Clanton

Test Dates: 11/06/18-11/13/18

Location: WWTP Effluent

CERIODAPHNIA REPRODUCTION

	(CONTROL	-	EFFLUENT
		22 33		33 11
		35		31
		39		0
		21		30
		35 41		27
		38		33 31
		31		26
		14		29
		14		23
MEAN		30.9		25.1
STANDARD DEVIAT	ION	8.94		10.89
COEFFICIENT OF VARIATION		28.92		43.38
SHAPIRO-WILKS	Calculated W			Critical W
	0.822		<	0.868
			NORMALLY D IK SUM TEST	ISTRIBUTED
F - TEST	Calculated F			Critical F
	1.48		<	6.54
	VARIANCES	EQUAL,	USE EQUAL \	/ARAINCE t - TEST
t - TEST	Calculated t			Critical t
	1.302		<	1.743

DATA SETS ARE NOT SIGNIFICANTLY DIFFERENT

Clanton Ceriodaphnia Reproduction 11/18
File: cl1118cr Transform: NO TRANSFORMATION

WILCOXON'S RANK SUM TEST W/ BONFERRONI ADJUSTMENT - Ho:Control<Treatment

SUM	VALUE	REPS	SIG
83.00	82.00	10	
	83.00	83.00 82.00	83.00 82.00 10

Critical values use k = 1, are 1 tailed, and alpha = 0.05

Discharger: Clanton

Test Dates: 11/06/18-11/13/18

Location:

WWTP Effluent

CERIODAPHNIA SURVIVAL

FISHER'S EXACT TEST

	ALIVE	DEAD	TOTAL	
CONTROL	10	0	10	
EFFLUENT	9	1	10	
TOTAL	19	1	20	

CRITICAL FISHER'S VALUE (10,10,10) (0.05)

b VALUE

6

<

9

THE DATA SETS ARE NOT SIGNIFICANTLY DIFFERENT.

Discharger: Clanton

Test Dates: 11/06/18-11/13/18

Location:

WWTP Effluent

FATHEAD MINNOW GROWTH

	CONTROL	EFFLUENT
	0.6200	0.5400
	0.7000	0.5200
	0.6133	0.5800
	0.5267	0.5400
MEAN	0.6150	0.5450
STANDARD DEVIATION	0.0708	0.0252
COEFFICIENT OF VARIATION	11.5189	4.6176

SHAPIRO-WILKS	Calculated W	Critical W		
	0.933	>	0.749	
	THE DATA ARI	DISTRIBUTED		

F - TEST

Calculated F Critical F

7.92 47.47

VARIANCES EQUAL, USE EQUAL VARAINCE t - TEST

t - TEST

Calculated t Critical t

1.862 < 1.943

DATA SETS ARE NOT SIGNIFICANTLY DIFFERENT

NPDES Permit Number AL0054631

Facility Name walnutcreek wwtp Form Approved 03/05/19 OMB No. 2040-0004

Form



U.S Environmental Protection Agency.

2F NPDES	₹!	:PA	STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY								
SECTION	1. OUT		TION (40 CFR 122.21(g)(1))							
1.1 Provide information on each of the facility's outfalls in the							e below	opuses lingui (suk si digust si ili	and the same	रस्टकार स्ट	483 DES ² 049.
		Outfall Number	Receiving Water Na	me		Latitu	ıde		Longit	ude	
€.	e.	002	walnut creek		32deg ^e	52	7.1"	86deg*	36′	Ó0.0	<i>"</i>
ocatio		003	walnut creek		32deg [®]	52	00.8"	86deg°	35′	53.2	<u>"</u>
Outrall Location			,			,	<i>ņ</i>		J.		"
. . 5		:	 	3.	· , •	,		0			n
	•	,			<u> </u>		n.	6	. 7		
					0	,		O	,		"
SECTION	2.1	Are you pre upgrading,	(40 CFR 122.21(g)(6)) esently required by any for operating wastewater ischarges described in t	federal r treatr	ment equipm		actices or any		ital prog		
	2.2		tify each applicable proj	ect in 1	the table belo	OW.	110 2	OKM TO OCCUON	<u> </u>		
			dentification and		cted Outfalls				Final Compliance Dates		
			ription of Project		outfall numbers		Source(s) of	Discharge	Requ	ired	Projected
								· · · · · · · · · · · · · · · · · · ·			
			a ·								* 1
ments		, .									
Improvements		·									:
.			***************************************		1.22						
				-							
	:	,			.,						
		,			<u> </u>						
				Ē	٠.		•				
	2.3		ttached sheets describing the test of the						environi	menta	projects
		☐ Yes	er Jour Annual Grant	Jou		- la :		IVEN			

Continued from the Front

	tive Description of Pollutar				
	ch outfall, provide an estimate of the area (d by the outfall.	include units) of impenous surfac	ces (including	paved areas and building roofs) drained to the outfall, and	d an estimate of the total surface area
Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
002	0.45 acres	2.93 acres	003	0.93 acres	2.83 acres
to stor storm	m water, method of treatment, stora water runoff; materials loading and a	ge, or disposal, past and pre	esent materi	t three years have been treated, stored or dispose als management practices employed to minimize and frequency in which pesticides, herbicides, so	contact by these materials with
applie			- h - h		
				ater. some herbicides and pestacides sludge is removed from dring beds and	
C. For e	ach outfall, provide the location and	a description of existing str	uctural and	nonstructural control measures to reduce polluta	ents in storm water runoff and a
descr of any		er receives, including the sch		ype of maintenance for control and treatment me	
Outfall Number		1	Freatment		List Codes from Table 2F-1
n/a					
V Nonet	ormwater Discharges			_	
		(s) covered by this applicati	on have bee	en tested or evaluated for the presence of nonsto	ermentor discharges, and that all
				lying Form 2C or From 2E application for the outfa	
Name and	Official Title (type or print)	Signature	\bigcirc		Date Signed
billy joe	e driver	Billy go	chi	iver	8-29-2019
	-				<u> </u>
	de a description of the method used, the discharge points are ins		he onsite dra	ainage points that were directly observed during a	test.
SCOIM WAL	er discharge points are this	pected daily.			
VI. Signif	ficant Leaks or Spills				
	existing information regarding the harmoniate date and location of the spill or le			xic or hazardous pollutants at the facility in the released.	last three years, including the
N/A					

Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1) AL0054631

VII. Discharge Information			
	eeding. Complete one set of tables for each outfall included on separate sheets numbers VII-1 and VI		ace provided.
Potential discharges not covered by and currently use or manufacture as an intern	alysis – is any toxic pollutant listed in table 2F-2 nediate or final product or byproduct?	, 2F-3, or 2F-4, a substance or a co	omponent of a substance which you
Yes (list all such pollutants bei	ow)	No (go to Section IX)	
Chlorine, and sulfer dioxide			
	•		
·			
	•		
·			
VIII. Biological Toxicity Testing Da	sto		
	lieve that any biological test for acute or chronic t	oxicity has been made on any of your	discharges or on a receiving water in
relation to your discharge within the last 3 years	ears?		
Yes (list all such pollutants bel	ow)	✓ No (go to Section IX)	
			•
1			
1			
1			
1			
IX. Contract Analysis Information			*****
	Il performed by a contract laboratory or consulting	firm?	
Yes (list the name, address, ar analyzed by, each such la	nd telephone number of, and pollutants boratory or firm below)	✓ No (go to Section X)	
A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
	• •		
	·		
]			
·			
	•	•	
·	•		
İ			
X. Certification			
I certify under penalty of law that this docur that qualified personnel properly gather and directly responsible for gathering the inform	ment and all attachments were prepared under m evaluate the information submitted. Based on my nation, the information submitted is, to the best o false information, including the possibility of fine a	inquiry of the person or persons who fmy knowledge and belief, true, accu	manage the system or those persons rate, and complete. I am aware that
A. Name & Official Title (Type Or Print)		B. Area Code and Phone No.	
billy joe driver	•	(205) 755-4051	
C. Signature		D. Date Signed	
B: Oly One Dri	vers	8-29-2019	?

VII. Discharge information (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

(in		um Values ude units)	Average Values (include units)		Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<1.4	N/A	<1.4	n/a	1.00	
Biological Oxygen Demand (BOD5)	2.4	<2.0	2.4	<2.0	1.00	
Chemical Oxygen Demand (COD)	<5.0	<5.0	<5.0 .	<5.0	1.00	
Total Suspended Solids (TSS)	8	6	8	6	1.00	
Total Nitrogen	3.13	0.18	3.13	0.18	1.00	
Total Phosphorus	.05	<.05	.05	<.05	1.00	
pH	Minimum 7.33	Maximum 7.33	Minimum 7.33	Maximum 7.33		

Part B — List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

1044	Maximum Values (include units)		Ave (ir	Average Values (include units)		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
oxygen,disolved	8.7	n/a	8.7	n/a	1.00	
ammonia, total	<.05	<.05	<.05	<.05	1.00	
(as n)						
nitrate plus	<.10	<.10	<.10	<.10	1.00	
nitrate total			1.20		1.00	·
chlorine, total	<.01	n/a	<.01	n/a	1.00	
residual						
E coli	6	n/a	6	n/a	1.00	*
nickel,total	<.0005	<.0005	<.0005	<.0005	1.00	
recoverable						
copper,total	.0008	.0007	.0008	.0007	1.00	
recoverable	.0008	1.0007	1.0008	1.0007	1.00	
10001010010					 	
zinc	<.0010	<.0010	<.0010	<.0010	1.00	
			<u> </u>			
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Continued	mom	tne	Front

Part C - Lis	t each pollutant show	wn in Table 2F-2, 2F-3, e one table for each out	, and 2F-4 that yo	ou know or have reason to	belie	ve is preser	nt. See the instru	ctions for additional details and
760	Maximu	um Values	Average Values			_		
D-III.do-A	(inclu	de units)	(in	clude units)	۱ ۱	lumber		
Pollutant and	Grab Sample Taken During		Grab Sample Taken During			of Storm		
CAS Number	First 20	Flow-Weighted	First 20	Flow-Weighted		Events	6.	susses of Delli-tents
(if available)	Minutes	Composite	Minutes	Composite	├ °	ampled	50	ources of Pollutants
					├			
					-			
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							3334.	
					1			
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Part D - Pro	ovide data for the sto	nm event(s) which resu	Ited in the maxim	um values for the flow weig	ahted	composite s	amole	
			nou iii o ii o iii o	4.	gined	oompoone c	5.	
1. Date of	2. Duration	3. Total rain	afall	Number of hours betwee beginning of storm meas			flow rate during in event	6. Total flow from
Storm	of Storm Event	during storm	event	and end of previous	.	(gallor	ns/minute or	rain event
Event	(in minutes)	(in inche	os)	measurable rain even			cify units)	(gallons or specify units)
1/01/2018		.72 inches				420 gpm		63500 gal
7. Provide a	7. Provide a description of the method of flow measurement or estimate.							
inch of ra	inch of rain on 1 acre is 27154 gal 002s drains 2.93 acres. assume 20% infiltration							
								1

VII. Discharge information (Continued from page 3 of Form 2F)

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	Maximum Values (include units)		Average Values (include units)		Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<1.4	N/A	<1.4	n/a	1.00	
Biological Oxygen Demand (BOD5)	<2.0	2.5	<2.0	2.5	1.00	
Chemical Oxygen Demand (COD)	<5.0	<5.0	<5.0	<5.0	1.00	
Total Suspended Solids (TSS)	6	7	6	7	1.00	
Total Nitrogen	.27	. 55	.27	. 55	1.00	
Total Phosphorus	<.05	.05	<.05	.05	1.00	
pН	Minimum 7.51	Maximum 7.51	Minimum 7.51	Maximum 7.51		

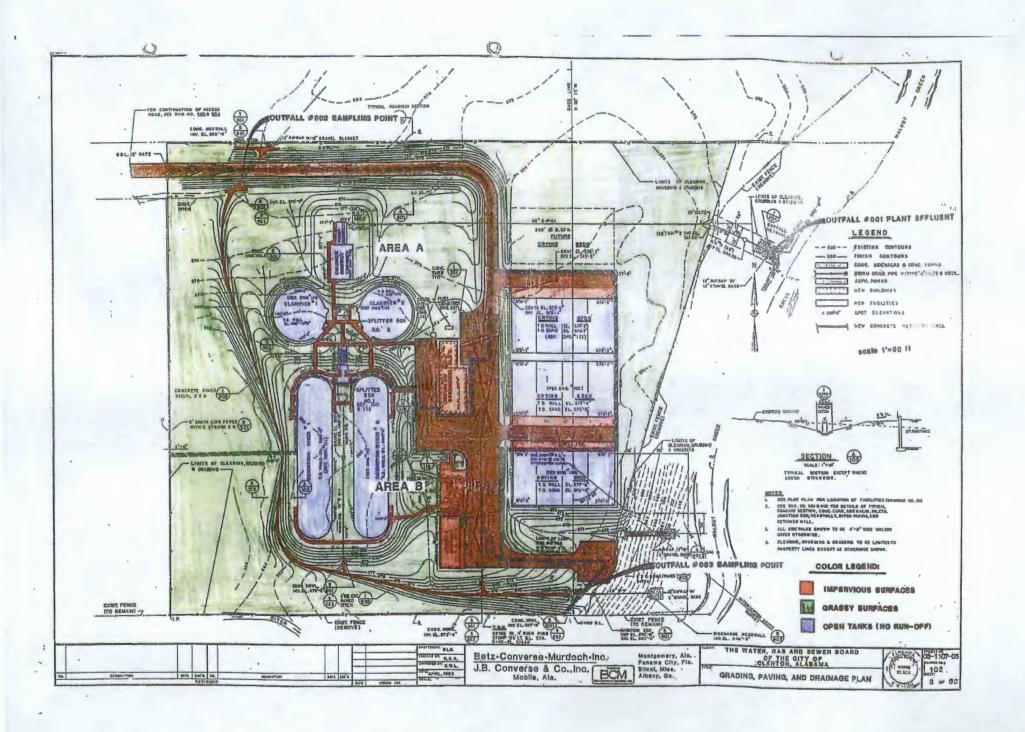
Part B — List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

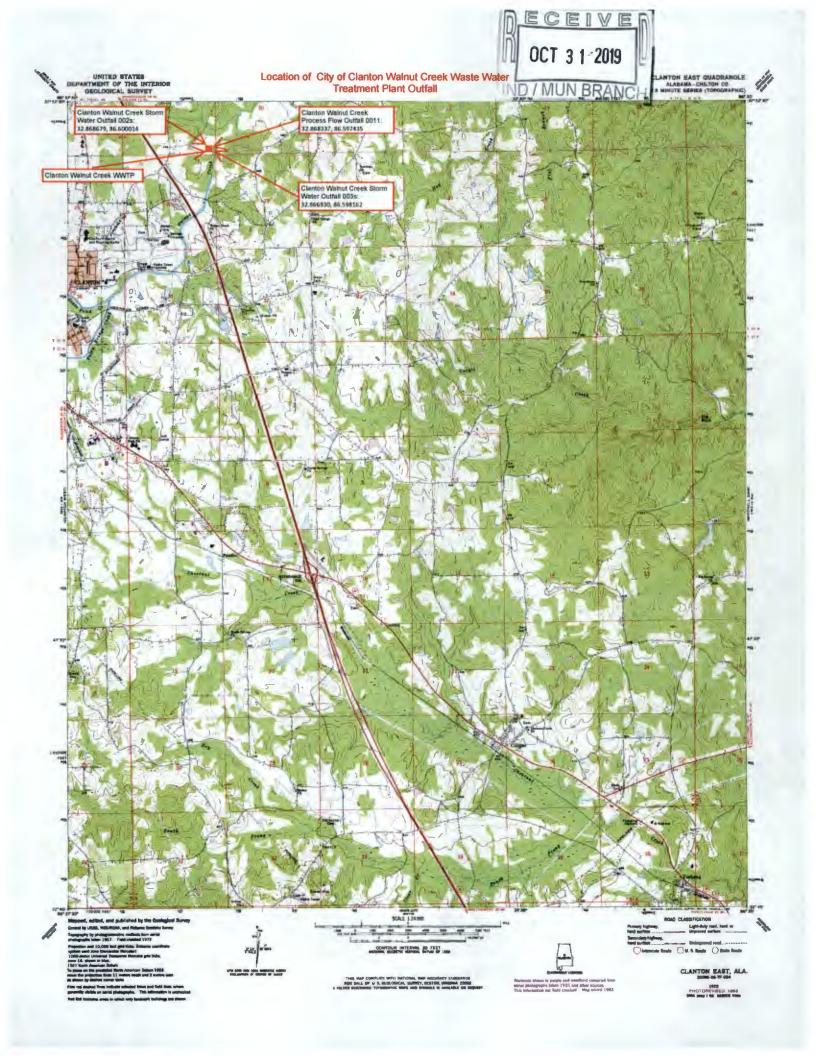
	Maximum Values (include units)		Average Values (include units)		Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
oxygen, disolved	9.3	n/a	9.3	n/a	1.00	
ammonia,total	<.05	<.05	<.05	<.05	1.00	
(as n)						
nitrate plus	<.10	<.10	<.10	<.10	1.00	
nitrate total						
chlorine,total	<.01	n/a	<.01	n/a	1.00	
residual			-			
E coli	1	n/a	1	n/a	1.00	
nickel,total	.0007	<.0005	.0007	<.0005	1.00	
recoverable		 	<u> </u>			
copper,total	.0006	.0006	.0006	.0006	1.00	
recoverable		 				
zinc	<.0010	<.0010	<.0010	<.0010	1.00	
			<u> </u>			
		-				
			+			
		1	1			

Continued from the Front

		mum Values Ave		erage Values nclude units)	Number			
Pollutant and AS Number f available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Se	ources of Pollutants	

D- Pro	wide data for the etc	see supplied which soo	ited in the movie	was values for the flow weigh	and composite			
D- F/C	ovide data for the sto	om event(s) which res	uited in the maxim	num values for the flow weight	ted composite s	5.		
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rai during storr (in inch	n event	Number of hours between beginning of storm measur and end of previous measurable rain event	ed ra (gallor	flow rate during in event ins/minute or cify units)	6. Total flow from rain event (gallons or specify un	
01/2019		0.72			405		61,500	
Provide a	description of the me	ethod of flow measurer	nent or estimate.					
				is 27,154 gallons. A	ssumed 20%	infiltration.		





Instructions – Form 2F Application for Permit to Discharge Storm Water Associated with Industrial Activity

Who Must File Form 2F

Form 2F must be completed by operators of facilities which discharge storm water associated with industrial activity or by operators of storm water discharges that EPA is evaluating for designation as a significant contributor of pollutants to waters of the United States, or as contributing to a violation of a water quality standard.

Operators of discharges which are composed entirely of storm water must complete Form 2F (EPA Form 3510-2F) in conjunction with Form 1 (EPA Form 3510-1).

Operators of discharges of storm water which are combined with process wastewater (process wastewater is water that comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, waste product, or wastewater) must complete and submit Form 2F, Form 1, and Form 2C (EPA Form 3510-2C).

Operators of discharges of storm water which are combined with nonprocess wastewater (nonprocess wastewater includes noncontact cooling water and sanitary wastes which are not regulated by effluent guidelines or a new source performance standard, except discharges by educational, medical, or commercial chemical laboratories) must complete Form 1, Form 2F, and Form 2E (EPA Form 3510 2E).

Operators of new sources or new discharges of storm water associated with industrial activity which will be combined with other nonstormwater new sources or new discharges must submit Form 1, Form 2F, and Form 2D (EPA Form 3510-2D).

Where to File Applications

The application forms should be sent to the EPA Regional Office which covers the State in which the facility is located. Form 2F must be used only when applying for permits in States where the NPDES permits program is administered by EPA. For facilities located in States which are approved to administer the NPDES permits program, the State environmental agency should be contacted for proper permit application forms and instructions.

Information on whether a particular program is administered by EPA or by a State agency can be obtained from your EPA Regional Office. Form 1, Table 1 of the "General Instructions" lists the addresses of EPA Regional Offices and the States within the jurisdiction of each Office.

Completeness

Your application will not be considered complete unless you answer every question on this form and on Form 1. If an item does not apply to you, enter "NA" (for not applicable) to show that you considered the question.

Public Availability of Submitted Information

You may not claim as confidential any information required by this form or Form 1, whether the information is reported on the forms or in an attachment. Section 402(j) of the Clean Water Act requires that all permit applications will be available to the public. This information will be made available to the public upon request.

Any information you submit to EPA which goes beyond that required by this form, Form 1, or Form 2C you may claim as confidential, but claims for information which are effluent data will be denied.

If you do not assert a claim of confidentiality at the time of submitting the information, EPA may make the information public without further notice to you. Claims of confidentiality will be handled in accordance with EPA's business confidentiality regulations at 40 CFR Part 2.

Definitions

All significant terms used in these instructions and in the form are defined in the glossary found in the General Instructions which accompany Form 1.

EPA ID Number

Fill in your EPA Identification Number at the top of each odd numbered page of Form 2F. You may copy this number directly from item I of Form 1.

Item I

You may use the map you provided for item XI of Form 1 to determine the latitude and longitude of each of your outfalls and the name of the receiving water.

Item 11-A

If you check "yes" to this question, complete all parts of the chart, or attach a copy of any previous submission you have made to EPA containing the same information.

Item 11-B

You are not required to submit a description of future pollution control projects if you do not wish to or if none is planned.

Item III

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including:

each of its drainage and discharge structures:

the drainage area of each storm water outfall;

paved areas and building within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied;

each of its hazardous waste treatment, storage or disposal facilities (including each area not required to have a RCRA permit which is used for accumulating hazardous waste for less than 90 days under 40 CFR 262.34);

each well where fluids from the facility are injected underground; and

springs, and other surface water bodies which receive storm water discharges from the facility;

Item IV-A

For each outfall, provide an estimate of the area drained by the outfall which is covered by impervious surfaces. For the purpose of this application, impervious surfaces are surfaces where storm water runs off at rates that are significantly higher than background rates (e.g., predevelopment levels) and include paved areas, building roofs, parking lots, and roadways. Include an estimate of the total area (including all impervious and pervious areas) drained by each outfall. The site map required under item III can be used to estimate the total area drained by each outfall.

Item IV-B

Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored, or disposed in a manner to allow exposure to storm water; method of treatment, storage or disposal of these materials; past and present materials management practices employed, in the last three years, to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied. Significant materials should be identified by chemical name, form (e.g., powder, liquid, etc.), and type of container or treatment unit. Indicate any materials treated, stored, or disposed of together. "Significant materials" includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under Section 101 (14) of CERCLA; any chemical the facility is required to report pursuant to Section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.

Item IV-C

For each outfall, structural controls Include structures which enclose material handling or storage areas, covering materials, berms, dikes, or diversion ditches around manufacturing, production, storage or treatment units, retention ponds, etc. Nonstructural controls include practices such as spill prevention plans, employee training, visual inspections, preventive maintenance, and housekeeping measures that are used to prevent or minimize the potential for releases of pollutants.

Item V

Provide a certification that all outfalls that should contain storm water discharges associated with industrial activity have been tested or evaluated for the presence of non-storm water discharges which are not covered by an NPDES permit. Tests for such non-storm water discharges may include smoke tests, fluorometric dye tests, analysis of accurate schematics, as well as other appropriate tests. Part B must include a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test. All non-storm water discharges must be identified in a Form 2C or Form 2E which must accompany this application (see beginning of instructions under section titled "Who Must File Form 2F" for a description of when Form 2C and Form 2E must be submitted).

Item VI

Provide a description of existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years.

Item VII-A, B, and C

These items require you to collect and report data on the pollutants discharged for each of your outfalls. Each part of this item addresses a different set of pollutants and must be completed in accordance with the specific instructions for that part. The following general instructions apply to the entire item.

General Instructions

Part A requires you to report at least one analysis for each pollutant listed. Parts B and C require you to report analytical data in two ways. For some pollutants addressed in Parts B and C, if you know or have reason to know that the pollutant is present in your discharge, you may be required to list the pollutant and test (sample and analyze) and report the levels of the pollutants in your discharge. For all other pollutants addressed in Parts B and C, you must list the pollutant if you know or have reason to know that the pollutant is present in the discharge, and either report quantitative data for the pollutant or briefly describe the reasons the pollutant is expected to be discharged. (See specific instructions on the form and below for Parts A through C.) Base your determination that a pollutant is present in or absent from your discharge on your knowledge of your raw materials, material management practices, maintenance chemicals, history of spills and releases, intermediate and final products and byproducts, and any previous analyses known to you of your effluent or similar effluent.

A. Sampling: The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater or storm water discharges. You may contact EPA or your State permitting authority for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc. The time when you sample should be representative, to the extent feasible, of your treatment system operating properly with no system upsets. Samples should be collected from the center of the flow channel, where turbulence is at a maximum, at a site specified in your present permit, or at any site adequate for the collection of a representative sample.

For pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, and fecal coliform, grab samples taken during the first 30 minutes (or as soon thereafter as practicable) of the discharge must be used (you are not required to analyze a flow-weighted composite for these parameters). For all other pollutants both a grab sample collected during the first 30 minutes (or as soon thereafter as practicable) of the discharge and a flow-weighted composite sample must be analyzed. However, a minimum of one grab sample may be taken for effluents from holding ponds or other impoundments with a retention period of greater than 24 hours.

All samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches and at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Where feasible, the variance in the duration of the event and the total rainfall of the event should not exceed 50 percent from the average or median rainfall event in that area.

A grab sample shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable), and a flow-weighted composite shall be taken for the entire event or for the first three hours of the event.

Grab and composite samples are defined as follows:

Grab sample: An individual sample of at least 100 milliliters collected during the first thirty minutes (or as soon thereafter as practicable) of the discharge. This sample is to be analyzed separately from the composite sample.

Flow-weighted Composite sample: A flow-weighted composite sample may be taken with a continuous sampler that proportions the amount of sample collected with the flow rate or as a combination of a minimum of three sample aliquots taken in each hour of discharge for the entire event or for the first three hours of the event, with each aliquot being at least 100 milliliters and collected with a minimum period of fifteen minutes between aliquot collections. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically. Where GC/MS Volatile Organic Analysis (VOA) is required, aliquots must be combined in the laboratory immediately before analysis. Only one analysis for the composite sample is required.

Data from samples taken in the past may be used, provided that:

All data requirements are met;

Sampling was done no more than three years before submission; and

All data are representative of the present discharge.

Among the factors which would cause the data to be unrepresentative are significant changes in production level, changes in raw materials, processes, or final products, and changes in storm water treatment. When the Agency promulgates new analytical methods in 40 CFR Part 136, EPA will provide information as to when you should use the new methods to generate data on your discharges. Of course, the Director may request additional information, including current quantitative data, if they determine it to be necessary to assess your discharges. The Director may allow or establish appropriate site-specific sampling procedures or requirements including sampling locations, the season in which the sampling takes place, the minimum duration between the previous measurable storm event and the storm event sampled, the minimum or maximum level of precipitation required for an appropriate storm event, the form of precipitation sampled (snow melt or rainfall), protocols for collecting samples under 40 CFR Part 136, and additional time for submitting data on a case-by-case basis.

B. Reporting: All levels must be reported as concentration and mass (note: grab samples are reported in terms of concentration). You may report some or all of the required data by attaching separate sheets of paper instead of filling out pages VII-1 and VII-2 if the separate sheets contain all the required information in a format which is constant with pages VII-1 and VII-2 in spacing and identification of pollutants and columns. Use the following abbreviations in the columns headed "Units."

Concentration	Mass

ppm	parts per million	lbs	pounds
mg/1	milligrams per liter	ton	tons (English tons)
ppb	parts per billion	mg	milligrams
ug/1	micrograms per liter	g	grams
kg	kilograms	Ť	tonnes (metric tons)

All reporting of values for metals must be in terms of "total recoverable metal," unless:

- (1) An applicable, promulgated effluent limitation or standard specifies the limitation for the metal in dissolved, valent, or total form; or
- (2) All approved analytical methods for the metal inherently measure only its dissolved form (e.g., hexavalent chromium); or
- (3) The permitting authority has determined that in establishing case-by-case limitations it is necessary to express the limitations on the metal in dissolved, valent, or total form to carry out the provisions of the CWA. If you measure only one grab sample and one flow-weighted composite

sample for a given outfall, complete only the "Maximum Values" columns and insert "1" into the "Number of Storm Events Sampled" column. The permitting authority may require you to conduct additional analyses to further characterize your discharges.

If you measure more than one value for a grab sample or a flow-weighted composite sample for a given outfall and those values are representative of your discharge, you must report them. You must describe your method of testing and data analysis. You also must determine the average of all values within the last year and report the concentration and mass under the "Average Values" columns, and the total number of storm events sampled under the "Number of Storm Events Sampled" columns.

C. Analysis: You must use test methods promulgated in 40 CFR Part 136; however, if none has been promulgated for a particular pollutant, you may use any suitable method for measuring the level of the pollutant in your discharge provided that you submit a description of the method or a reference to a published method. Your description should include the sample holding time, preservation techniques, and the quality control measures which you used. If you have two or more substantially identical outfalls, you may request permission from your permitting authority to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is granted by the permitting authority, on a separate sheet attached to the application form, identify which outfall you did test, and describe why the outfalls which you did not test are substantially identical to the outfall which you did test.

Part VII-A

Part VII-A must be completed by all applicants for all outfalls who must complete Form 2F.

Analyze a grab sample collected during the first thirty minutes (or as soon thereafter as practicable) of the discharge and flow-weighted composite samples for all pollutants in this Part, and report the results except use only grab samples for pH and oil and grease. See discussion in General Instructions to Item VII for definitions of grab sample collected during the first thirty minutes of discharge and flow-weighted composite sample. The "Average Values" column is not compulsory but should be filled out if data are available.

Part VII B

List all pollutants that are limited in an effluent guideline which the facility is subject to (see 40 CFR Subchapter N to determine which pollutants are limited in effluent guidelines) or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPIDES permit). Complete one table for each outfall. See discussion in General instructions to item VII for definitions of grab sample collected during the first thirty minutes (or as soon thereafter as practicable) of discharge and flow-weighted composite sample. The "Average Values" column is not compulsory but should be filled out if data are available.

Analyze a grab sample collected during the first thirty minutes of the discharge and flow-weighted composite samples for all pollutants in this Part, and report the results, except as provided in the General Instructions.

Part VII-C

Part V11-C must be completed by all applicants for all outfalls which discharge storm water associated with industrial activity, or that EPA is evaluating for designation as a significant contributor of pollutants to waters of the United States, or as contributing to a violation of a water quality standard. Use both a grab sample and a composite sample for all pollutants you analyze for in this part except use grab samples for residual chlorine and fecal coliform. The "Average Values" column is not compulsory but should be filled out if data are available. Part C requires you to address the pollutants in Table 2F-2, 2F-3, and 2F-4 for each outfall. Pollutants in each of these Tables are addressed differently.

Table 2F-2: For each outfall, list all pollutants in Table 2F-2 that you know or have reason to believe are discharged (except pollutants previously listed in Part VII-B). If a pollutant is limited in an effluent guideline limitation which the facility is subject to, the pollutant must be analyzed and reported in Part VII-B. If a pollutant in Table 2F-2 is indirectly limited by an effluent guideline limitation through an indicator (e.g., use of TSS as an indicator to control the discharge of iron and aluminum), you must analyze for it and report the data in Part VII-B. For other pollutants listed in Table 2F-2 (those not limited directly or indirectly by an effluent limitation guideline), that you know or have reason to believe are discharged, you must either report quantitative data or briefly describe the reasons the pollutant is expected to be discharged.

Table 2F-3: For each outfall, list all pollutants in Table 2F-3 that you know or have reason to believe are discharged. For every pollutant in Table 2F-3 expected to be discharged in concentrations of 10 ppb or greater, you must submit quantitative data. For acrolein, acrylonitrile, 2,4 dinitrophenol, and 2-methyl-4,6 dinitrophenol, you must submit quantitative data if any of these four pollutants is expected to be discharged in concentrations of 100 ppb or greater. For every pollutant expected to be discharged in concentrations less than 10 ppb (or 100 ppb for the four pollutants listed above), then you must either submit quantitative data or briefly describe the reasons the pollutant is expected to be discharged.

Small Business Exemption - If you are a "small business," you are exempt from the reporting requirements for the organic toxic pollutants listed in Table 2F-3. There are two ways in which you can qualify as a small business". If your facility is a coal mine, and if your probable total annual production is less than 100,000 tons per year, you may submit past production data or estimated future production (such as a schedule of estimated total production under 30 CFR 795.14(c)) instead of conducting analyses for the organic toxic pollutants. If your facility is not a coal mine, and if your gross total annual sales for the most recent three years average less than \$100,000 per year (in second quarter 1980 dollars), you may submit sales data for those years instead of conducting analyses for the organic toxic pollutants. The production or sales data must be for the facility which is the source of the discharge. The data should not be limited to production or sales for the process or processes which contribute to the discharge, unless those are the only processes at your facility. For sales data, in situations involving intracorporate transfer of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second quarter of 1980 by using the gross national product price deflator (second quarter of 1980=100). This index is available in National Income and Product Accounts of the United States (Department of Commerce, Bureau of Economic Analysis).

Table 2F-4: For each outfall, list any pollutant in Table 2F-4 that you know or believe to be present in the discharge and explain why you believe it to be present. No analysis is required, but if you have analytical data, you must report them. Note: Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed at 40 CFR 177.21 or 40 CFR 302.4) may be exempted from the requirements of section 311 of CWA, which establishes reporting requirements, civil penalties, and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amount of the discharged substances are identified in the NPDES permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirements of section 311, attach additional sheets of paper to your form, setting forth the following information:

- 1. The substance and the amount of each substance which may be discharged.
- 2. The origin and source of the discharge of the substance.
- 3. The treatment which is to be provided for the discharge by;
 - a. An onsite treatment system separate from any treatment system treating your normal discharge;
 - b. A treatment system designed to treat your normal discharge and which is additionally capable of treating the amount of the substance identified under paragraph 1 above; or
 - c. Any combination of the above.

See 40 CFR 117.12(a)(2) and (c), published on August 29, 1979, in 44 FR 50766, or contact your Regional Office (Table I on Form 1, Instructions), for further information on exclusions from section 311.

Part VII-D

If sampling is conducted during more than one storm event, you only need to report the information requested in Part VII-D for the storm event(s) which resulted in any maximum pollutant concentration reported in Part VII-A, VII-B, or VII-C.

Provide flow measurements or estimates of the flow rate, and the total amount of discharge for the storm event(s) sampled, the method of flow measurement, or estimation. Provide the data and duration of the storm event(s) sampled, rainfall measurements, or estimates of the storm event which generated the sampled runoff and the duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

Part VII-E

List any toxic pollutant listed in Tables 2F-2, 2F-3, or 2F-4 which you currently use or manufacture as an intermediate or final product or byproduct. In addition, if you know or have reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) is discharged or if you use or manufacture 2,4,5-trichlorophenoxy acetic acid (2,4,5,-T); 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5,-TP); 2-(2,4,5-trichlorophenoxy) ethyl, 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel); 2,4,5-trichlorophenol (TCP); or hexachlorophene (HCP); then list TCDD. The Director may waive or modify the requirement if you demonstrate that it would be unduly burdensome to identify each toxic pollutant and the Director has adequate information to issue your permit. You may not claim this information as confidential; however, you do not have to distinguish between use or production of the pollutants or list the amounts.

Item VIII

Self explanatory. The permitting authority may ask you to provide additional details after your application is received.

Item X

The Clean Water Act provides for severe penalties for submitting false information on this application form.

Section 309(c)(4) of the Clean Water Act provides that "Any person who knowingly makes any false material statement, representation, or certification in any application, . . . shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years, or by both. If a conviction of such person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or by both." 40 CFR Part 122.22 requires the certification to be signed as follows:

(A) For a corporation: by a responsible corporate official. For purposes of this section, a responsible corporate official means (i) a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25,000,000 (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

Note: EPA does not require specific assignments or delegation of authority to responsible corporate officers identified in 122.22(a)(1)(i) The Agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the Director to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate position under 122.22(a)(1)(ii) rather than to specific individuals.

- (B) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
- **(C) For a municipality, State, Federal, or other public agency:** by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

Table 2F-1 Codes for Treatment Units

Physical Treatment Processes

1-A 1-B 1-C 1-D 1-E 1-F	Ammonia Stripping Dialysis Diatomaceous Earth Filtration Distillation Electrodialysis Evaporation	1-M 1-N 1-0 1-P 1-Q 1-R	Grit Removal Microstraining Mixing Moving Bed Filters Multimedia Filtration Rapid Sand Filtration
1-G 1-H 1-1 1-J 1-K 1-L	Flocculation Flotation Foam Fractionation Freezing Gas-Phase Separation Grinding (Comminutors) Chemical Treatment F	1-S 1-T 1-U 1-V 1-W 1-X	Reverse Osmosis (Hyperfiltration) Screening Sedimentation (Setting) Slow Sand Filtration Solvent Extraction Sorption
2-A 2-B 2-C 2-D 2-E 2-F	Carbon Adsorption Chemical Oxidation Chemical Precipitation Coagulation Dechlorination Disinfection (Chlorine) Biological Treatment I	2-G 2-H 2-I 2-J 2-K 2-L	Disinfection (Ozone) Disinfection (Other) Electrochemical Treatment Ion Exchange Neutralization Reduction
3-A 3-B 3-C 3-D	Activated Sludge Aerated Lagoons Anaerobic Treatment Nitrification-Denitrification	3-E 3-F 3-G 3-H	Pre-Aeration Spray Irrigation/Land Application Stabilization Ponds Trickling Filtration
4-A 4-B	Other Process Discharge to Surface Water Ocean Discharge Through Outfall Sludge Treatment and Disp	4-C 4-D	Reuse/Recycle of Treated Effluent Underground Injection
5-A 5-B 5-C 5-E 5-F 5-H 5-5-K 5-5-K 5-5-K	Aerobic Digestion Anaerobic Digestion Belt Filtration Centrifugation Chemical Conditioning Chlorine Treatment Composting Drying Beds Elutriation Flotation Thickening Freezing Gravity Thickening	5-M 5-N 5-0 5-P 5-0 5-R 5-S 5-T 5-U 5-V 5-W	Heat Drying Heat Treatment Incineration Land Application Landfill Pressure Filtration Pyrolysis Sludge Lagoons Vacuum Filtration Vibration Wet Oxidation

Table 2F-2

Conventional and Nonconventional Pollutants

Bromide
Chlorine, Total Residual
Color
Fecal Coliform
Fluoride
Nitrate-Nitrite
Nitrogen, Total Organic
Oil and Grease
Phosphorus, Total
Radioactivity
Sulfate
Sulfite
Surfactants
Aluminum, Total
Barium, Total
Boron, Total
Cobalt Total
Iron, Total
Magnesium, Total
Magnesium, Total
Manganese, Total
Tin, Total
Titanium, Total

Table 2F-3

Toxic Pollutants

Toxic Pollutants and Total Phenol

Antimony, Total Arsenic, Total	Copper, Total Lead, Total	Silver, Total Thallium, Total
Beryllium, Total	Mercury, Total	Zinc, Total
Cadmium, Total	Nickel, Total	Cyanide, Total
Chromium, Total	Selenium, Total	Phenols, Total

GC/MS Fraction Volatiles Compounds

Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachlonide Chlorobenzene Chlorodibromomethane Chloroethane 2-Chloroethylvinyl Ether	Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloropropane 1.3-Dichloropropylene Ethylbenzene Methyl Bromide Methyl Chloride	1,1,2,2,-Tetrachloroethane Tetrachloroethylene Toluene 1,2-Trans-Dichloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Vinyl Chloride
2-Chloroethylvinyl Ether Chloroform	Methyl Chloride Methylene Chloride	•

Acid Compounds

2-Chlorophenol	2,4-Dinitrophenol	Pentachlorophenol
2,4-Dichlorophenol	2-Nitrophenol	Phenol
2.4-Dimethylphenol	4-Nitrophenol	2,4,6-Trichlorophenol
4,6-Dinitro-O-Cresol	p-Chloro-M-Cresol	2-methyl-4,6 dinitrophenol

	Base/Neutral	
Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(a)pyrene 3,4-Benzofluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether Bis(2-ethylyhexyl)phthalate 4-Bromophenyl Phenyl Ether	2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)anthracene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine Diethyl Phthalate Dimethyl Phthalate Di-N-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-N-Octyphthalate	Fluroranthene Fluorene Hexachlorobenzene Hexachlorobenzene Hexachlorobetadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone Napthalene Nitrobenzene N-Nitrosodimethylamine N-Nitrosodi-N-Propylamine N-Nitrosodiphenylamine Phenanthrene Pyrene
Butylbenzyl Phthalate	1,2-Diphenylhydrazine (as Azobenzene)	1,2,4-Trichlorobenzene

Pesticides

Aldrin Alpha-BHC Beta-BHC Gamma-BHC Delta-BHC Chlordane 4,4'-DDT 4.4'-DDE	Dieldrin Alpha-Endosulfan Beta-Endosulfarı Endosulfan Sulfate Endrin Endrin Aldehyde Heptachlor Heptachlor Epoxide	PCB-1254 PCB-1221 PCB-1232 PCB-1248 PGB-1260 PCB-1016 Toxaphene
4,4'-DDE 4,4'-DDD	Heptachlor Epoxide PCB-1242	
4,4'-DDE	Heptachlor Epoxide	Тохарпене

Table 2F-4

Hazardous Substances

Toxic Pollutant

Asbestos

Hazardous Substances

Acetaldehyde Dinitrobenzene Napthenic acid Allyl alcohol Diquat Nitrotoluene Allyl chloride Disulfoton Parathion Amyl acetate Diuron Phenoisulfonate Aniline . Epichlorohydrin Phosgene Benzonitrile Ethion Propargite Benzyl chloride Ethylene diamine Propylene oxide Butyl acetate Ethylene dibromide **Pyrethrins** Butylamine Formaldehyde Quinoline Carbarvl Furfural Resorcinol Carbofuran Guthion Stronthium Carbon disulfide Isoprene Strychnine Chlorpyrifos Isopropanolamine Styrene Coumaphos

Kelthane 2,4,5-T (2,4,5-Trichlorophenoxyacetic

acid)

Kepone TDE (Tetrachlorodiphenyl ethane) Malathion 2,4,5-TP [2-(2,4,5-Trichlorophenoxy)

propanoic acid] Trichlorofan

Mercaptodimethur Methoxychlor Triethylamine

Methyl mercaptan **Trimethylamine** Methyl methacrylate Uranium Methyl parathion Vanadium Mevinphos Vinyl acetate Mexacarbate Xylene Monoethyl amine **Xylenol** Monomethyl amine Zirconium

Diethyl amine Dimethyl amine

2,2-Dichloropropionic acid

Cresol

acid) Diazinon

Dicamba

Dichlone

Dichlobenil

Dichlorvos

Crotonaldehyde

2,4-D (2,4-Dichlorophenoxyacetic

Cyclohexane

Naled

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) NPDES INDIVIDUAL PERMIT APPLICATION

SUPPLEMENTARY INFORMATION FOR PUBLICLY-OWNED TREATMENT WORKS (POTW), OTHER TREATMENT WORKS TREATING DOMESTIC SEWAGE (TWTDS), AND PUBLIC WATER SUPPLY TREATMENT PLANTS

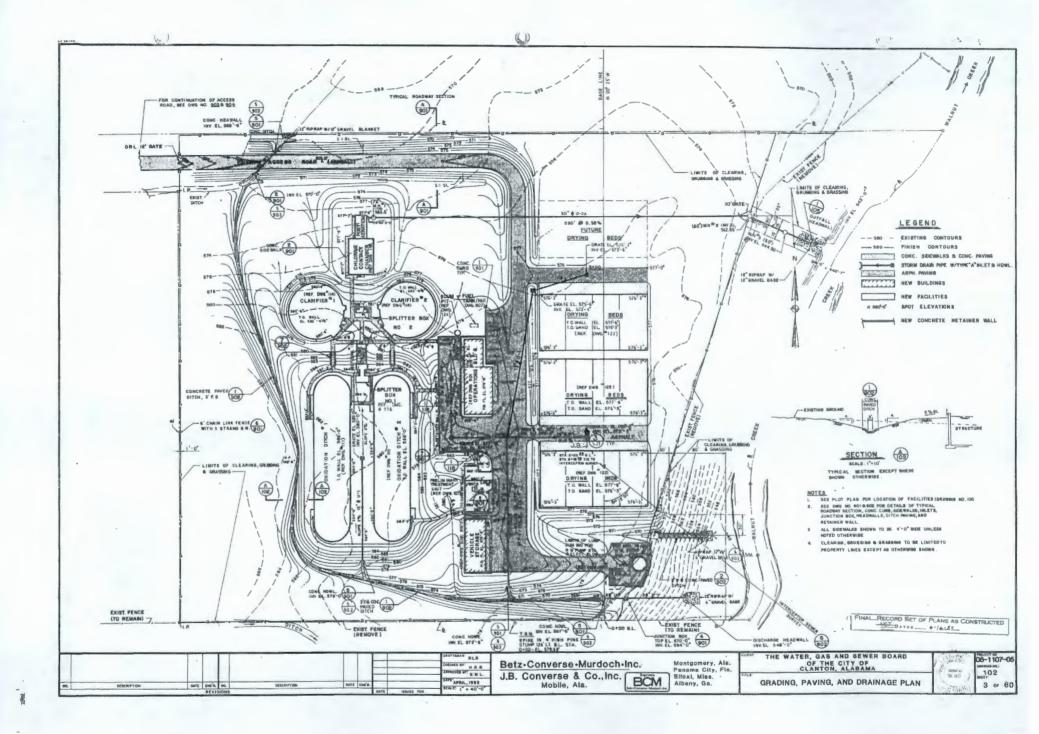
Instructions: This form should be used to submit the required supplementary information for an application for an NPDES individual permit for Publicly Owned Treatment Works (POTW) and other Treatment Works Treating Domestic Sewage (TWTDS). The completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continue on an attached sheet of paper. Please mark "N/A" in the appropriate box when an item is not applicable to the applicant. Please type or print legibly in blue or black ink. Mail the completed application to:

		ADEM-Water Division Municipal Section P O Box 301463 Montgomery, AL 36		DECEIVED AUG 2 9 2019
	PURP	OSE OF THIS AP	PLICATION	IND / MUN BRANCH
	3	Reissuance of E		ic Environmental (E2) Reporting must b
SEC	ction A - GENERAL INFORMATION Facility Name: walnut creek waste wa	ater treatme	nt plant	
1.	a. Operator Name: wall of clanton		nt plant	
	 Is the operator identified in A.1.a, the owner of If no, provide name and address of the operathe facility. 		Towns and the second	erator's scope of responsibility for
2.		with the conditions	(Not applicable if initial p	
	Street: 1574 county road 51			
	City: clanton County: child	ton	State: alabama	zip: 35046
	Facility Location (Front Gate): Latitude: 32de(g52' 07"	Longitude: 86	6deg36' 01"
1	Facility Mailing Address: po box 580			
4.	City: Clanton County: Child	ton	State: alabama	Zip: 35046
5.	Name and Title: billy joe driver mayor	this application):		
	Address: po box 580			3
	_{City:} clanton	_{State:} alab	ama	_{Zip:} 35046
	2057554051			ofclanton.com

Name and Title: Anthony	Robinson		•
Phone Number: 205-755-		_{dress:} clantonwwt	p@hotmail.com
7. Designated Emergency Contact: Name and Title: Anthony	Robinson		
Phone Number 205-755-		dress clantonwwt	p@hotmail.com
. Please complete this section if the responsible official not listed in A.5		ity is a Proprietorship or Li	imited Liability Company (LLC) with
Name and Title:	· · · · · · · · · · · · · · · · · · ·		,
Address:	· · · · · · · · · · · · · · · · · · ·		
City:	State:		Zip:
Phone Number:	Email Add	dress:	
Walnut Creek WW			ty of Clanton
Identify all Administrative Complaconcerning water pollution or othe (attach additional sheets if necess)	r permit violations, if any aga		Orders, Consent Decrees, or Litigat State of Alabama in the past five year
Facility Name	Permit Number	Type of Action	Date of Action
<u></u>			

DECEIVED	.e		

6. Designated Facility/DMR Contact:



4.	List the following histor	rical monthly flow rates recorded for	the past five years for each	outfall:
	Outfall No.	Highest Flow in Last 12 Months (MGD)	Highest Daily Flow (MGD)	Average Flow (MGD)
	0011	3.522	5.184	1.649
				
2.	Attach a process flow solutions.	schematic of the treatment process,	including the size of each u	nit operation and sample collection
3. Do you share an outfall with another facility? Yes No (If no, continue to B.4) For each shared outfall, provide the following:				
	Applicant's Outfall No.	Name of Other Permittee/Facility	NPDES Permit No.	Where is sample collected by Applicant?
4.	Do you have, or plan to	o have, automatic sampling equipme	ent or continuous wastewate	er flow metering equipment at this facility?
		Current: Flow Metering Sampling Equipme	Yes No	N/A N/A
		Planned: Flow Metering Sampling Equipme	Yes No Pent Yes No	N/A N/A
	If so, please attach a s describe the equipmen		em indicating the present or	future location of this equipment and
5.		ollection or treatment modifications or characteristics (Note: Permit Modif		g the next three years that could alter Yes No
	Briefly describe these of sheets if needed.)	changes and any potential or anticip	ated effects on the wastewa	ater quality and quantity: (Attach additional
Des the dist	scribe the location of all state, either directly or tribution systems that an	indirectly via storm sewer, municipal properties in the subject of the subject in	or liquids that have any pote al sewer, municipal wastew ect existing or proposed NPI	ential for accidental discharge to a water or ater treatment plants, or other collection or DES- permitted facility. Indicate the location areas of concern as an attachment to this
	Desc	cription of Waste	Desc	ription of Storage Location
·····		sludge scum		Drying beds Drying beds
				y y
		MECEL	Y 5	
ADE	M Form 188 10/17 m:	3 OCT 3 0 2	OIA IN	Page 3 of 6

Describe the location of any sites used for the ultimate disposal of solid or liquid waste materials or residuals (e.g. sludges) generated by any wastewater treatment system located at the facility.

	Description of Waste	Quantity (Ibs/day)	<u> </u>	Dis	posal Metho	d*		
	sludge	651 drylbs/dy	she	by county l	andfill às	of 04/0	1/201	
	scum	58 drylbs/dy	shelby county la			and fill		
CTIC	ON D - INDUSTRIAL INDIRECT D	an off-site treatment facility and any DISCHARGE CONTRIBUTORS trial source wastewater contributions to	·				(Attach	
ol	her sheets if necessary) Company Name	Description of Industrial Wastew	ator	Existing or	Flow	Subject	t to SID	
· · · · · · · · · · · · · · · · · · ·		THE THE PERSON NAMED WAS TRANSPORTED TO THE PERSON OF THE	ales	Proposed	(MGD)	Реп		
	oflex adient	metal finishing	ar racely arthoughth FB to the receive or	existing	-090	☐ Yes	_ <u> </u> N	
	auen	metal finishing	and the second second second second	existing	.0135	Yes	N	
		est marting and marting and a section security and analysis and an experience of the section of			W' f ferred risk floor fi ² h ' and a floor floor for	Yes Yes		
łf	yes, please attach a copy of the or	ons regulated via a locally approved ser rdinance.			1100	No		
	ON E - COASTAL ZONE INFORM					Phonoide		
		10-foot elevation contour and within th	e limits o	of Mobile or Bal	dwin County	/? Yes	N	
If y	es, complete items E.1 – E.12 belo	OW:						
						<u>Yes</u>	No	
1.	Does the project require new cor	nstruction?		•				
2.	Will the project be a source of ne	ew air emissions?			• • • • • • • • • • • • • • • • • • • •		П	
3.	Does the project involve dredging	g and/or filling of a wetland area or wat	ter way?	·- -	· · · · · · · · · · · · · · · · · · ·	🗂		
	If Yes, has the Corps of Enginee COE Project No	rs (COE) permit been received?	•••••••		•	* Sources		
4.	Does the project involve wetland	s and/or submersed grassbeds?	••••••	•	••••••			
5.	-	project site?						
	If Yes, include a map showing pr	oject and discharge location with respe	ect to oys	ster reefs				
6.	Does the project involve the site in ADEM Admin. Code r. 335-8-1	developement, construction and opera i02(bb)?	tion of a	n energy facility	as defined			
7.	Does the project involve mitigation	on of shoreline or coastal area erosion?	?					
8.	Does the project involve construct	ction on beaches or dune areas?		·····	····	🗍		
9.	Will the project interfere with pub	lic access to coastal waters?				🗍		
10	. Does the project lie within the 10	0-year floodplain?			••••••			
	. Does the project involve the regis	stration, sale, use, or application of pes	sticides?		• • • • • • • • • • • • • • • • • • • •			
11.		ire construction of a new well or to alte	er an exis	iting groundwat	er well to			
	 Does the project propose or requestions per companies than 50 gallons per companies. 	day (GPD)?	************			.	1 1	
	pump more than 50 gallons per o	for groundwater recovery or for ground	water we	Il installation be	een	<u></u>		

pro	vided	dance with 40 CFR §131.12 and the ADEM Admin. Code r. 335-6-1004 for anti-degradation, the following information must be l, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity. If a sequired to make this demonstration, attach additional sheets to the application.
		s a new or increased discharge that began after April 3, 1991? Yes No s, complete F.2 below. If no, go to Section G.
2.	Has a	an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge enced in F.1? Yes No
	If yes	s, do not complete this section.
	ADE Cost	and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-1012(4), complete F.2.A – F.2.F below, M Form 311-Alternatives Analysis, and either ADEM Form 312 or ADEM Form 313- Calculation of Total Annualized Project s (Public-Sector or Private-Sector Projects, whichever is applicable). ADEM Form 312 or ADEM Form 313, whichever is cable, must be provided for each treatment discharge alternative considered technically viable. ADEM forms can be found on Department's website at http://adem.alabama.gov/DeptForms/ .
	Infor	mation required for new or increased discharges to high quality waters:
	A.	What environmental or public health problem will the discharger be correcting?
	B.	How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?
	C.	How much reduction in employment will the discharger be avoiding?
	D.	How much additional state or local taxes will the discharger be paying?
	E.	What public service to the community will the discharger be providing?
	F.	What economic or social benefit will the discharger be providing to the community?

SECTION G - EPA Application Forms

All Applicants must submit certain EPA permit application forms. More than one application form may be required from a POTW or other TWTDS depending on the number and types of discharges or outfalls. The EPA application forms are found on the Department's website at http://adem.alabama.gov/programs/water/waterforms.cnt. The EPA application forms must be submitted in duplicate as follows:

All applicants must submit Form 1.

SECTION F - ANTI-DEGRADATION EVALUATION

- Applicants for new or existing discharges of sanitary wastewater from Publicly-Owned Treatment Works (POTW) and Other Treatment Works Treating Domestic Sewage (TWTDS) must submit Form 2A.
- Applicants for new or existing land application of sanitary wastewater must submit Form 2A and, if the land application site is not completely bermed to prevent runoff, applicants must also submit Form 2F.
- Applicants for new and existing discharges of process wastewater from water treatment facilities (i.e. public water supply treatment plants) must submit Form 2C.
- Applicants that generate sewage sludge, derive a material from sewage sludge, or dispose of sewage sludge must submit Part 2 of Form 2S.

SECTION H- ENGINEERING REPORT/BMP PLAN REQUIREMENTS

IND/MUN BRANCH

Any Engineering Report or Best Management Practice (BMP) Plans required to be submitted to ADEM by the applicant must be in accordance with ADEM 335-6-6-.08(i) & (j).

SECTION I- RECEIVING WATERS

Outfall No.	all No. Receiving Water(s) 303(d) Segment?		Included in TMDL?*		
0011	walnut creek	Yes ■ No	Yes No		
		Yes No	Yes No		
		Yes No	Yes No		

^{*}If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

- (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.);
- (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available);
- (3) Requested interim limitations, if applicable;
- (4) Date of final compliance with the TMDL limitations; and,
- (5) Any other additional information available to support requested compliance schedule.

SECTION J - APPLICATION CERTIFICATION

The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r. 335-6-6-.09 "signatories to permit applications and reports" (see below).

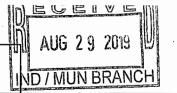
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 fine and imprisonment for knowing violations."

ignature of Responsible Official: Dilly Gre. Driver Date Signed: B-27-2019 ame and Title: billy joe driver							
If the Responsible Official signing this application is not mailing Address: po box 580		vide the following information:					
_{City:} clanton	_{State:} al	_{Zip:} 35046					
Phone Number: 2057554051	Email Address: Dora	nge@cityofclanton.com					

335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
 - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
 - (b) In the case of a partnership, by a general partner;
 - (c) In the case of a sole proprietorship, by the proprietor; or
 - (d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

FACILITY NAME AND PERMIT NUMBER:



Form Approved 1/14/99 OMB Number 2040-0086

FORM

2S NPDES

NPDES FORM 2S APPLICATION OVERVIEW

PRELIMINARY INFORMATION

This page is designed to indicate whether the applicant is to complete Part 1 or Part 2. Review each category, and then complete Part 1 or Part 2, as indicated. For purposes of this form, the term "you" refers to the applicant. "This facility" and "your facility" refer to the facility for which application information is submitted.

FACILITIES INCLUDED IN ANY OF THE FOLLOWING CATEGORIES MUST COMPLETE PART 2 (PERMIT APPLICATION INFORMATION).

- Facilities with a currently effective NPDES permit.
- Facilities which have been directed by the permitting authority to submit a full permit application at this time.

ALL OTHER FACILITIES MUST COMPLETE PART 1 (LIMITED BACKGROUND INFORMATION).

P/	۱RT	1: LIMITED BACKGRO	OUND INFORMA	ATION				· .	
						.7			
NPI	DES	t should be completed only by "slu permit for a direct discharge to a si	urface body of water.			e in		* '	
For info	purp rmat	oses of this form, the term "you" r ion is submitted.	efers to the applicant.	*	and "your facility	" refer to	the facility	for which a	pplication
1.	Fac	ility Information.							٠
	a.	Facility name				;	· · · · · · · · · · · · · · · · · · ·	_ .	
	b.	Mailing Address							,
	c.	Contact person		_				_	
		Title						<u> </u>	•
	,	Telephone number					***		
	d.	Facility Address (not P.O. B ox)	· ·					- -	
	e.	Indicate the type of facility							u.
		Publicly owned treatme	nt works (POTW) <u> </u>	Privately	owned treatment	works			7.7.
		Federally owned treatm	ent works	Blending	or treatment oper	ration	•		V V
	-	Surface disposal site		Sewage	sludge incinerator	r	,		
		Other (describe)			·		· · · ·		•
-		0.4.		•	i .				
2.	Apı	olicant Information.		a.		,		•	
	a.	Applicant name			 -			<u> </u>	, ii
	b.	Mailing Address		<u> </u>			· · · · · · · · · · · · · · · · · · ·	ese e e e e e e e e e e e e e e e e e e	a .
	C.	Contact person					J.	g - 15	
	٥.	Title	-					_	
		Telephone number							
	d.	Is the applicant the owner or operat	or (or both) of this facility	?				_	· ·
	٠.,	owner operator	. (5: 20a.) i sijo izoliti						Å.
	e.	Should correspondence regarding t	his permit he directed to	the facility or the	applicant?				
	G.	facilityapplicant	ino portrini de anocioa to	radinty of the	· — taken asai 199	•			

FACI	LIT	Y NAME AND PERMIT	NUMBER:			Form Approved 1/14/99 OMB Number 2040-0086	
3. \$	Sev	vage Sludge Amount.	Provide the total dry metric tons pe	er latest 365 day	period of sewage sl	udge handled under the following practices:	
8	a. Amount generated at the facility				dry metric tons		
t	b. Amount received from off site				dry metric tons		
(c. Amount treated or blended on site				dry metric tons		
C	ı.	Amount sold or given	away in a bag or other container for	r application to t	he land	dry metric tons	
•	e. Amount of bulk sewage sludge shipped off site for treatment or blending				dry metric tons		
f	f. Amount applied to the land in bulk form				dry metric tons		
ç	g. Amount placed on a surface disposal site				dry metric tons		
ł	h. Amount fired in a sewage sludge incinerator				dry metric tons		
i	i. Amount sent to a municipal solid waste landfill				dry metric tons		
j	j. Amount used or disposed by another practice				dry metric tons		
		Describe				<u> </u>	
٧	vhic late	ch limits in sewage slud on three or more samp	ge have been established in 40 CF bles taken at least one month apart	R part 503 for the and no more the	nis facility's expected an four and one-half	ge sludge monitoring data for the pollutants fo use or disposal practices. If available, base years old.	
		POLLUTANT	CONCENTRATION (mg/kg dry weight)	ANALYT	ICAL METHOD	DETECTION LEVEL FOR ANALYSIS	
ARSE	NIC	49e. 11					
CADM	IUN						
CHRO	MIL	M					
COPP	ER						
EAD							
MERC	UR	Υ					
MOLY	BDE	NUM			•		
NICKE	L						
SELEN	IUI	л	··-··				
ZINC				,			
5.	Tre	atment Provided At Yo	our Facility.				
	Which class of pathogen reduction does the sewage sludge meet at your facility?						
Class A Class B Neither or unknown							
b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage				y to reduce pathogens in sewage sludge:			
				• • • •			
		-					

	Y NAME AND PERMIT NUMBER: OMB N	lumber 2040-0086
c.	Which vector attraction reduction option is met for the sewage sludge at your facility?	
	Option 1 (Minimum 38 percent reduction in volatile solids)	,
	Option 2 (Anaerobic process, with bench-scale demonstration)	
	Option 3 (Aerobic process, with bench-scale demonstration)	
	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)	
	Option 5 (Aerobic processes plus raised temperature)	
	Option 6 (Raise pH to 12 and retain at 11.5)	
	Option 7 (75 percent solids with no unstabilized solids)	
	Option 8 (90 percent solids with unstabilized solids)	
	Option 9 (Injection below land surface)	
	Option 10 (Incorporation into soil within 6 hours)	
	Option 11 (Covering active sewage sludge unit daily)	
	None or unknown	
d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attractive sewage sludge:	on properties of
		_
	· · · · · · · · · · · · · · · · · · ·	<u>·</u>
polli	vage Sludge Sent to Other Facilities. Does the sewage sludge from your facility meet the Table 1 ceiling concentration utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? YesNo Poss, go to question 8 (Certification). The sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal?	ns, the Table 3
If ye	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? Yes No	ns, the Table 3
if no	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? Yes No s, go to question 8 (Certification). is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? Yes No	ns, the Table 3
if no	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? YesNo es, go to question 8 (Certification). is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? YesNo o, go to question 7 (Use and Disposal Sites).	ns, the Table 3
if no	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? YesNo es, go to question 8 (Certification). o, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? YesNo o, go to question 7 (Use and Disposal Sites). es, provide the following information for the facility receiving the sewage sludge:	ns, the Table 3
if no if ye	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? YesNo es, go to question 8 (Certification). o, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? YesNo o, go to question 7 (Use and Disposal Sites). es, provide the following information for the facility receiving the sewage sludge: Facility name	ns, the Table 3
if no if ye	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? YesNo es, go to question 8 (Certification). o, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? YesNo o, go to question 7 (Use and Disposal Sites). es, provide the following information for the facility receiving the sewage sludge: Facility name Mailing address	ns, the Table 3
if no if ye	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? YesNo es, go to question 8 (Certification). o, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? YesNo o, go to question 7 (Use and Disposal Sites). es, provide the following information for the facility receiving the sewage sludge: Facility name	ns, the Table 3
if year. b.	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? YesNo es, go to question 8 (Certification). o, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? YesNo o, go to question 7 (Use and Disposal Sites). es, provide the following information for the facility receiving the sewage sludge: Facility name Mailing address	ns, the Table 3
if year. b.	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? Yes No es, go to question 8 (Certification). o, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? Yes No o, go to question 7 (Use and Disposal Sites). es, provide the following information for the facility receiving the sewage sludge: Facility name Mailing address Contact person Title	ns, the Table 3
if year. b.	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? Yes No as, go to question 8 (Certification). b, is sewage studge from your facility provided to another facility for treatment, distribution, use, or disposal? Yes No b, go to question 7 (Use and Disposal Sites). as, provide the following information for the facility receiving the sewage studge: Facility name Mailing address Contact person Title Telephone number	ns, the Table 3
if year. b.	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? Yes No es, go to question 8 (Certification). o, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? Yes No o, go to question 7 (Use and Disposal Sites). es, provide the following information for the facility receiving the sewage sludge: Facility name Mailing address Contact person Title	ns, the Table 3
if year. b.	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? Yes No as, go to question 8 (Certification). b, is sewage studge from your facility provided to another facility for treatment, distribution, use, or disposal? Yes No b, go to question 7 (Use and Disposal Sites). as, provide the following information for the facility receiving the sewage studge: Facility name Mailing address Contact person Title Telephone number	ns, the Table 3
if year. b.	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? YesNo es, go to question 8 (Certification). b, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? YesNo b, go to question 7 (Use and Disposal Sites). es, provide the following information for the facility receiving the sewage sludge: Facility name Mailing address Contact person Title Telephone number Which activities does the receiving facility provide? (Check all that apply)	ns, the Table 3
if year. b.		ns, the Table 3
if year. b.	utant concentrations, Class A pathogen requirements, and one of the vector attraction options 1-8? YesNo es, go to question 8 (Certification). o, is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal? YesNo o, go to question 7 (Use and Disposal Sites). es, provide the following information for the facility receiving the sewage sludge: Facility name Mailing address Contact person Title Telephone number Which activities does the receiving facility provide? (Check all that apply) Treatment or blendingSale or give-away in bag or other container	ns, the Table 3
if year. b.		ns, the Table 3

FAG	CILIT	Y NAME AND	PERMIT NUM	BER:		Form Approved 1/14/99 OMB Number 2040-0086
7.	Use	and Dispos	al Sites. Provid	de the following information for each site or	n which sewage sludge from this faci	lity is used or disposed:
	a.	Site name o	r number			
	b.	Contact per	son			
		Title				
		Telephone				
	C.	Site location	(Complete 1 o	r 2)		
		1. Street	or Route#			
		County	,			
		City or	Town	State	Zip	
		2. Latitud	e	Longitude		
	d.	Site type (C	heck all that app	oly)		
		Agricu	Itural	Lawn or home garden	Forest	
		Surfac	e disposal	Public Contact	Incineration	
		Reclar	nation	Municipal Solid Waste Landfill	Other (describe):	
8.	Сег	tification. Si	gn the certificat	ion statement below. (Refer to instructions	s to determine who is an officer for pu	urposes of this certification.)
	syst or p kno	tem designed ersons who n wledge and b	to assure that on nanage the systelief, true, accur	this document and all attachments were p qualified personnel properly gather and eva em or those persons directly responsible for rate, and complete. I am aware that there ent for knowing violations.	aluate the information submitted. Based or gathering the information, the information, the information.	sed on my inquiry of the person mation is, to the best of my
	Nan	ne and officia	title			
	Sigr	nature	_			
	Tele	ephone numb	er			
	Date	e signed	_			

SEND COMPLETED FORMS TO:

PART 2: PERMIT APPLICATION INFORMATION

Complete this part if you have an effective NPDES permit or have been directed by the permitting authority to submit a full permit application at this time. In other words, complete this part if your facility has, or is applying for, an NPDES permit.

For purposes of this form, the term "you" refers to the applicant. "This facility" and "your facility" refer to the facility for which application information is submitted.

APPLICATION OVERVIEW — SEWAGE SLUDGE USE OR DISPOSAL INFORMATION

Part 2 is divided into five sections (A-E). Section A pertains to all applicants. The applicability of Sections B, C, D, and E depends on your facility's sewage sludge use or disposal practices. The information provided on this page indicates which sections of Part 2 to fill out.

1. SECTION A: GENERAL INFORMATION.

Section A must be completed by all applicants

SECTION B: GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE.

Section B must be completed by applicants who either:

- 1) Generate sewage sludge, or
- 2) Derive a material from sewage sludge.
- 3. SECTION C: LAND APPLICATION OF BULK SEWAGE SLUDGE.

Section C must be completed by applicants who either:

- 1) Apply sewage to the land, or
- 2) Generate sewage sludge which is applied to the land by others.

NOTE: Applicants who meet either or both of the two above criteria are exempted from this requirement if <u>all</u> sewage sludge from their facility falls into one of the following three categories:

- The sewage sludge from this facility meets the ceiling and pollutant concentrations, Class A pathogen reduction requirements, and one of vector attraction reduction options 1-8, as identified in the instructions, or
- 2) The sewage sludge from this facility is placed in a bag or other container for sale or give-away for application to the land, or
- 3) The sewage sludge from this facility is sent to another facility for treatment or blending.
- 4. SECTION D: SURFACE DISPOSAL

Section D must be completed by applicants who own or operate a surface disposal site.

5. SECTION E: INCINERATION

Section E must be completed by applicants who own or operate a sewage sludge incinerator.

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FACILITY NAME AND PERMIT NUMBER:

walnut creek wwtp AL0054631

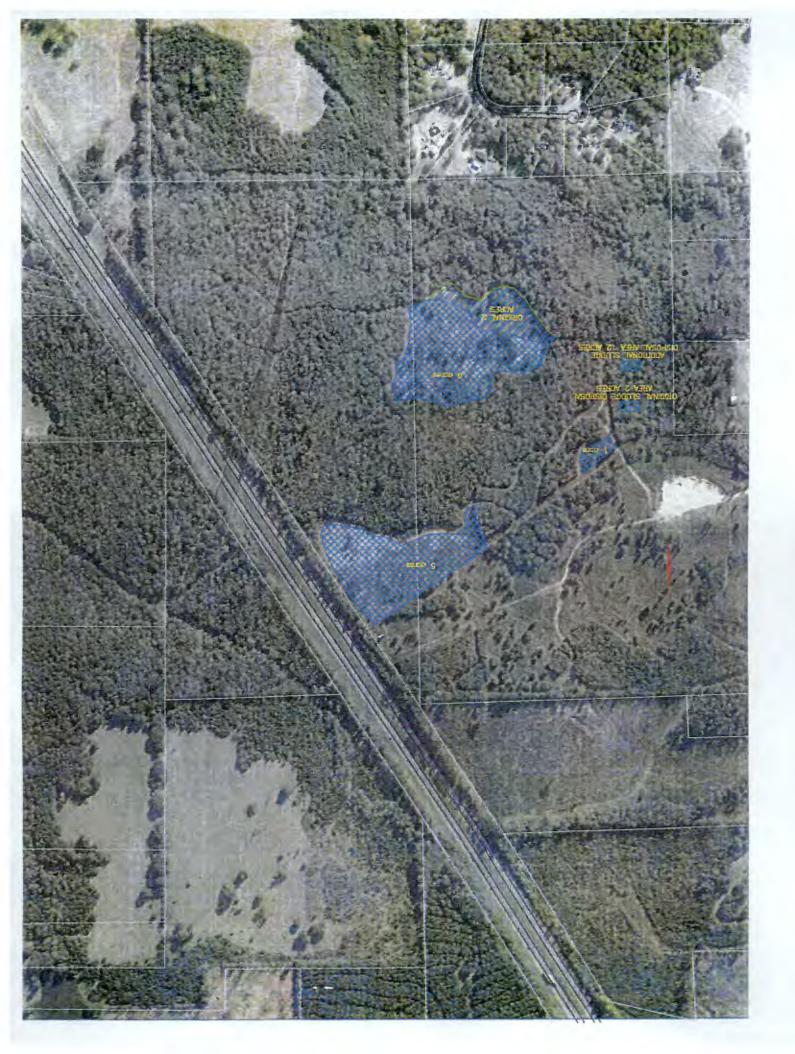
A. GENERAL INFORMATION	
All applicants must complete this section.	

_		walnut creek wwtp		
a.	Facility name			
b.	Mailing Address	po box 580 clanton al 35046		
c. Contact person Title		anthony robinson		
		supervisor		
	Telephone number	(205) 755-2380		
d. Facility Address (not P.O. Box) 1574 county road 51 clanton al 35046		1574 county road 51 clanton al 35046		
e.	Is this facility a Class I sludge ma	anagement facility?YesNo		
f.	Facility design flow rate: 2.25	mgd		
g.	Total population served: 6,0	000.00		
h.				
	Indicate the type of facility:			
	Publicly owned treatment	t works (POTW) Privately owned treatment works		
	Publicly owned treatmen	ent works Blending or treatment operation		
	Publicly owned treatment Federally owned treatment Surface disposal site	•		
	Publicly owned treatmen	ent works Blending or treatment operation		
Apı	Publicly owned treatment Federally owned treatment Surface disposal site Other (describe)	Blending or treatment operation Sewage sludge incinerator ant is different from the above, provide the following:		
Ap :	Publicly owned treatment Federally owned treatment Surface disposal site Other (describe)	Ent works Blending or treatment operation Sewage sludge incinerator		
	Publicly owned treatment Federally owned treatment Surface disposal site Other (describe) plicant Information. If the application	Blending or treatment operation Sewage sludge incinerator ant is different from the above, provide the following:		
a. b.	Publicly owned treatment Federally owned treatment Surface disposal site Other (describe) plicant Information. If the applicat Applicant name Mailing Address	Blending or treatment operation Sewage sludge incinerator ant is different from the above, provide the following: city of clanton		
a.	Publicly owned treatment Federally owned treatment Surface disposal site Other (describe) plicant Information. If the applicant Applicant name Mailing Address Contact person	Blending or treatment operation Sewage sludge incinerator ant is different from the above, provide the following: city of clanton po box 580 clanton al 35046		
a. b.	Publicly owned treatment Federally owned treatment Surface disposal site Other (describe) Plicant Information. If the applicat Applicant name Mailing Address Contact person Title	Blending or treatment operation Sewage sludge incinerator ant is different from the above, provide the following: city of clanton po box 580 clanton al 35046 billy joe driver		
a. b.	Publicly owned treatment Federally owned treatment Surface disposal site Other (describe) plicant Information. If the applicat Applicant name Mailing Address Contact person Title Telephone number	Blending or treatment operation Sewage sludge incinerator ant is different from the above, provide the following: city of clanton po box 580 clanton al 35046 billy joe driver mayor (205) 755-4051		
a. b.	Publicly owned treatment Federally owned treatment Surface disposal site Other (describe) Plicant Information. If the applicant Applicant name Mailing Address Contact person Title Telephone number Is the applicant the owner or ope	Blending or treatment operation Sewage sludge incinerator ant is different from the above, provide the following: city of clanton po box 580 clanton al 35046 billy joe driver mayor (205) 755-4051 prator (or both) of this facility?		
a. b.	Publicly owned treatment Federally owned treatment Surface disposal site Other (describe) plicant Information. If the applicant Applicant name Mailing Address Contact person Title Telephone number Is the applicant the owner or ope	Blending or treatment operation Sewage sludge incinerator ant is different from the above, provide the following: city of clanton po box 580 clanton al 35046 billy joe driver mayor (205) 755-4051 prator (or both) of this facility?		

	TY NAME AND PERMIT NUMBER: creek wwtp AL0054631	Form Approved 1/14/99 OMB Number 2040-0086
A.3. Pe	rmit Information.	
a.	Facility's NPDES permit number (if applicable):	
b.	List, on this form or an attachment, all other Federal, State, and this facility's sewage sludge management practices:	local permits or construction approvals received or applied for that regulate
	Permit Number Type of Permit	_
	dian Country. Does any generation, treatment, storage, application	n to land, or disposal of sewage sludge from this facility occur in Indian
	lowing information. Map(s) should include the area one mile beyong Location of all sewage sludge management facilities, including lo	
	the facility property boundaries.	
ter	ne Drawing. Provide a line drawing and/or a narrative description m of the permit, including all processes used for collecting, dewate lids leaving each unit, and all methods used for pathogen reduction	that identifies all sewage sludge processes that will be employed during the wing, storing, or treating sewage sludge, the destination(s) of all liquids and a and vector attraction reduction.
A.7. Co	ntractor Information.	
	e any operational or maintenance aspects of this facility related to entractor?	sewage sludge generation, treatment, use or disposal the responsibility of a
If y	ves, provide the following for each contractor (attach additional pag	es if necessary):
a.	Name	
b.	Mailing Address	
c.	Telephone Number	
d.	Responsibilities of contractor	



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A.8. Pollution Concentrations: Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants for which limits in sewage sludge have been established in 40 CFR Part 503 for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
ARSENIC	1.44	sw6010b	.96
CADMIUM	0.22	sw6010b	.095
CHROMIUM	27.30	sw6010b	.96
COPPER	247.00	sw6010b	.96
LEAD	4.45	sw6010b	.48
MERCURY	0.82	sw7471a	.094
MOLYBDENUM	10.61	sw6010b	4.76
NICKEL	926.00	sw6010b	17.67
SELENIUM	1.44	sw6010b	.96
ZINC	1,176.00	sw6010b	21

A.9. Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of Form 2S you have completed and are submitting:

Part 1 Limited Background Information packet

Part 2 Permit Application Information packet:

Section A (General Information)
Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
Section C (Land Application of Bulk Sewage Sludge)
Section D (Surface Disposal)

Section E (Incineration)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information 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 fine and imprisonment for knowing violations.

Name and official title

anthony robinson supervisor

Signature

Date signed 08/26/2019

Telephone number

(205) 755-2380

Upon request of the permitting authority, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

walnut creek wwto AL0054631

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B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

	A IMATERIAL DERIVED FROM SEVVAGE SLODGE				
Соп	plet	e this section if your facility gene	rates sewage sludge or derives a material from sewage sludge.		
B.1.		ount Generated On Site.			
	Tota	al dry metric tons per 365-day period	d generated at your facility: dry metric tons		
B.2.	follo		our facility receives sewage sludge from another facility for treatment, use, or disposal, provide the om which sewage sludge is received. If you receive sewage sludge from more than one facility, attach		
	a.	Facility name	n/a 		
	b.	Mailing Address			
	C.	Contact person			
		Title			
		Telephone number			
	d.	Facility Address (not P.O. Box)			
	e.		period received from this facility: dry metric tons		
	f.		er sheet of paper, any treatment processes known to occur at the off-site facility, including blending pathogens or vector attraction characteristics.		
B.3.	Тгеа	atment Provided At Your Facility.			
	a.		is achieved for the sewage sludge at your facility?		
		Class A	Class BNeither or unknown		
	b.	Describe, on this form or another s	sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:		
	c.	Which vector attraction reduction of	option is met for the sewage sludge at your facility?		
		Option 1 (Minimum 38 pe	ercent reduction in volatile solids)		
		Option 2 (Anaerobic proc	ess, with bench-scale demonstration)		
		Option 3 (Aerobic proces	s, with bench-scale demonstration)		
		Option 4 (Specific oxyger	n uptake rate for aerobically digested sludge)		
		Option 5 (Aerobic proces	ses plus raised temperature)		
		Option 6 (Raise pH to 12	and retain at 11.5)		
		Option 7 (75 percent solid	ds with no unstabilized solids)		
			ds with unstabilized solids)		
		None or unknown			

			Form Approved 1/14/99 OMB Number 2040-0086	
B.3.	Tre	eatment Provided At Your Facility. (con't)		
 Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction prosewage sludge: drying beds 				
	e.	Describe, on this form or another sheet of paper, any other sew	vage sludge treatment or blending activities not identified in (a) - (d) above:	
con	cent uiren	trations in Table 3 of §503.13, the Class A pathogen reduction ments in § 503.33(b)(1)-(8) and is land applied. Skip this sect	ceiling concentrations in Table 1 of 40 CFR 503.13, the pollutant in requirements in §503.32(a), <u>and</u> one of the vector attraction reduction ion if sewage sludge from your facility does <u>not</u> meet all of these	
B.4.		eparation of Sewage Sludge Meeting Ceiling and Pollutant Co raction Reduction Options 1-8.	ncentrations, Class A Pathogen Requirements, and One of Vector	
	a.	Total dry metric tons per 365-day period of sewage sludge subj	ect to this section that is applied to the land: dry metric tons	
	b.	Is sewage sludge subject to this section placed in bags or other	containers for sale or give-away for application to the land?	
		YesNo		
the s	sewa	age sludge is covered in Section B.4. e or Give-Away in a Bag or Other Container for Application to	ed in a bag or other container at your facility for sale or give-away for	
	b.	Attach, with this application, a copy of all labels or notices that a container for application to the land.	accompany the sewage sludge being sold or given away in a bag or other	
does	not	te Section B.6 if sewage sludge from your facility is provided tapply to sewage sludge sent directly to a land application of in Sections B.4 or B.5. If you provide sewage sludge to more	to another facility that provides treatment or blending. This section or surface disposal site. Skip this section if the sewage sludge is than one facility, attach additional pages as necessary.	
B.6.	Ship	pment Off Site for Treatment or Blending.		
	a.	Receiving facility name		
	b.	Mailing address		
	c.	Contact person		
		Title		
		Telephone number		
	d.	Total dry metric tons per 365-day period of sewage sludge prov	ided to receiving facility.	
	u.	Total dry metric tons per 303-day period of sewage studge prov	Labor to receiving lacility.	

3.6.	Ship	pment Off Site for Treatment or Blending. (con't)
	e.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility?YesNo
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?
		Class A Class B Neither or unknown
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge:
	f.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge?
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility?
		Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration)
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5)
		Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids) None
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge.
	g.	Does the receiving facility provide any additional treatment or blending activities not identified in (c) or (d) above?
	h.	If you answered yes to (e), (f), or (g), attach a copy of any information you provide the receiving facility to comply with the "notice and necessary information" requirement of 40 CFR 503.12(g).
	i.	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? Yes No
		If yes, provide a copy of all labels or notices that accompany the product being sold or given away.
om	plet	te Section B.7 if sewage sludge from your facility is applied to the land, <u>unless</u> the sewage sludge is covered in:
Com	plet	Section B.4 (it meets Table 1 ceiling concentrations, Table 3 pollutant concentrations, Class A pathogen requirements, and one of vector attraction reduction options 1-8); or
Com	plet	Section B.4 (it meets Table 1 ceiling concentrations, Table 3 pollutant concentrations, Class A pathogen requirements, and one of
	•	Section B.4 (it meets Table 1 ceiling concentrations, Table 3 pollutant concentrations, Class A pathogen requirements, and one of vector attraction reduction options 1-8); or Section B.5 (you place it in a bag or other container for sale or give-away for application to the land); or Section B.6 (you send it to another facility for treatment or blending).
3.7.	•	Section B.4 (it meets Table 1 ceiling concentrations, Table 3 pollutant concentrations, Class A pathogen requirements, and one of vector attraction reduction options 1-8); or Section B.5 (you place it in a bag or other container for sale or give-away for application to the land); or

FACILIT	Y NAME AND PERMIT NUMBER:		,	Form Approved 1/14/99 OMB Number 2040-0086		
P.7.1.0	ad Application of Pulls Sources Si	udeo (oork)		, -		
b.7. Lai	nd Application of Bulk Sewage Sl Do you identify all land application	n sites in Section C of this application?	<u> </u>			
		oplication plan with application (see ins				
C.	Are any land application sites loc sludge?Yes	ated in States other than the State whe _ No	re you generate sewage sludge or de	erive a material from sewage		
	If yes, describe, on this form or another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.					
			•			
Comple	te Section B.8 if sewage sludge f	rom your facility is placed on a surfa	ace disposal site.	en og state det en		
B.8. Su	face Disposal.					
a.	Total dry metric tons of sewage s	ludge from your facility placed on all su	rface disposal sites per 365-day peri	od: dry metric tons		
b.	Do you own or operate all surface	e disposal sites to which you send sewa	age sludge for disposal?			
	Yes No					
	If no, answer B.8.c through B.8.f for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one such surface disposal site, attach additional pages as necessary.					
c.	Site name or number					
d.	Contact person			<u>.</u>		
	Title			<u></u>		
	Telephone number					
	Contact is	Site owner	Site operator			
e.	Mailing address					
f.	Total dry metric tons of sewage s	ludge from your facility placed on this s	surface disposal site per 365-day peri	od: dry metric tons		
Comple	te Section B.9 if sewage sludge f	rom your facility is fired in a sewage	sludge Incinerator.			
B.9. Inc	ineration.					
a.	Total dry metric tons of sewage s	ludge from your facility fired in all sewa	ge sludge incinerators per 365-day p	eriod: dry metric tons		
b.	Do you own or operate all sewage	e sludge incinerators in which sewage s	sludge from your facility is fired?	Yes No		
	-	f for each sewage sludge incinerator th inerator, attach additional pages as neo		send sewage sludge to more		
C.	Incinerator name or number:		····			
d.	Contact person:					
	Title:					
	Telephone number:					
	Contact is:	Incinerator owner	Incinerator operator			

FACILITY NAME AND PERMIT NUMBER:				orm Approved 1/14/99		
walnut c	reek	wwto AL0054631			OMB	Number 2040-0086
B.9. Inc	inera	tion. (con't)		•		
e.	Mai	ling address:				
f.	Tota	al dry metric tons of sew	age sludge from your facility fired in	n this sewage sludge i	ncinerator per 365-day period: _	dry metric tons
Comple	te Se	ction B.10 if sewage sl	udge from this facility is placed o	on a municipal solid	waste landfill.	
B.10.	sluc		olid Waste Landfill. Provide the foolaced. If sewage sludge is placed of	-	•	_
	a.	Name of landfill	shelby county land fill			
	b.	Contact person				
		Title				
		Telephone number	(205) 669-4169			
		Contact is	Landfill owner	✓ Landfi	II operator	
	C.	Mailing address	4154 AL-70 columbiana AL 3		·	
	0.	Maining address				
	d.	Location of municipal s	4154 AL-70 clombiana AL			
		County	shelby			
		City or Town	clombiana	State <u>al</u>	Zip 35051	
	e.	Total dry metric tons o	f sewage sludge from your facility p	laced in this municipa	ıl solid waste landfill per 365-day	period:
		50	dry metric tons			
	f.	List, on this form or an municipal solid waste l	attachment, the numbers of all oth	er Federal, State, and	local permits that regulate the o	peration of this
		Permit Number	Type of Permit			
			-stine information to determine who	other the sources alud	ao moete applicable requiremen	to for disposal of
	g.		cation, information to determine who unicipal solid waste landfill (e.g., res			เอ เบเ นเจมบริสเ ()
	h.	Does the municipal so	lid waste landfill comply with applica	able criteria set forth i	n 40 CFR Part 258?	
		Yes	No			

walnut creek wwto AL0054631

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C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete Section C for sewage sludge that is applied to the land, unless any of the following conditions apply:

- The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements, and one of vector attraction reduction options 1-8 (fill out B.4 Instead); or

	•		or given away in a bag or other container for application to the land (fill out B.5 Insteand and ge to another facility for treatment or blending (fill out B.6 instead).	ad); or
Con	plet		which the sewage sludge that you reported in Section B.7 is applied.	
C.1.	lden	tification of Land Applicatio	on Site.	
•••	a.	Site name or number	collage site	
	b.	Site location (Complete 1 and 1. Street or Route #	d 2). plant site	
		County	chilton	
		City or Town	clanton State Zip 35046	
		2. Latitude 32-52-07	Longitude 86-36-58	
		Method of latitude/longit		
		USGS map	Field survey Other	
	c.	Topographic map. Provide a	topographic map (or other appropriate map if a topographic map is unavailable) that shows	the site location.
C.2.	Owr	er Information.		
	a.	Are you the owner of this land	d application site? YesNo	
	b.	If no, provide the following inf	formation about the owner:	
		Name		
		Telephone number		
		Mailing Address	Na Va	
		_		
C.3.	App a.	<i>V</i>	ies, or who is responsible for application of, sewage sludge to this land application site?	
	b.	If no, provide the following inf	formation for the person who applies:	
		Name		
		Telephone number		
		Mailing Address		
C.4.	Site	Type: Identify the type of land Agricultural land Reclamation site	d application site from among the following. Public contact site Other. Describe:	

			oved 1/14/99 per 2040-0086						
C.5.	Cro	p or	Other Vegetation Grown on Site.			<u> </u>			
		-	_	n on this cito?	•				
	a.		at type of crop or other vegetation is grow naia grass and other native grass	n on this site?					
	b.		at is the nitrogen requirement for this crop	or vegetation?					
C.6.	Vec	tor A	ttraction Reduction.						
	Are	re any vector attraction reduction requirements met when sewage sludge is applied to the land application site? YesNo							
	If ye	yes, answer C.6.a and C.6.b;							
		a.	Indicate which vector attraction reduction	n option is met:					
			Option 9 (Injection below land s	urface)					
			Option 10 (Incorporation into so	il within 6 hours)					
		b.	Describe, on this form or another sheet properties of sewage sludge:	of paper, any treatment pro	cesses used at the land application site to reduce	vector attraction			
			spread and disc under with in 6 hrs						
			1		·				
			~_~~						
	-		estion C.7 only if the sewage sludge a) in 40 CFR 503.13(b)(2).	pplied to this site since Ju	uly 20, 1993, is subject to the cumulative pollut	ant loading			
C.7.	Cun	nulat	ive Loadings and Remaining Allotmen	ts.					
	a.		e you contacted the permitting authority in the bulk sewage sludge subject to CPLR		sewage sludge subject to CPLRs will be applied, t site on or since July 20, 1993?Yes	o ascertain No			
		If <u>nc</u>	, sewage sludge subject to CPLRs may r	not be applied to this site.					
		If <u>y</u> e	s, provide the following information:			,			
			Permitting authority	 					
			Contact Person	u					
			Telephone number						
	b.		ed upon this inquiry, has bulk sewage slu Yes No	dge subject to CPLRs beer	applied to this site since July 20, 1993?				
		if no	o, skip C.7.c.						

The state of the s

	ITY NAME AND PERMIT NU creek wwto AL0054631	MBER:	Form Approved 1/14/99 OMB Number 2040-0086		
C.	_	mation for every facility other than yours that is sending, or have than one such facility sends sewage sludge to this site, atta			
	Facility name	·			
	Mailing Address				
	Contact person				
	Title				
	Telephone number				

Page 17 of 23

walnut creek wwto AL0054631

Form Approved 1/14/99 OMB Number 2040-0086

D. SUF	RFACE DISPOSAL
Complet	te this section if you own or operate a surface disposal site.
Comple	te Sections D.1 - D.5 for each active sewage sludge unit.
D.1. Info	ormation on Active Sewage Sludge Units.
a.	Unit name or number:
b.	Unit location (Complete 1 and 2).
	1. Street or Route #
	County
	City or Town State Zip
	2. LatitudeLongitude
	Method of latitude/longitude determination: USGS map Field survey Other
c.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.
d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: dry metric tons
e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit: dry metric tons
f.	Does the active sewage sludge unit have a liner with a maximum hydraulic conductivity of 1 × 10 ⁻⁷ cm/sec?YesNo
	If yes, describe the liner (or attach a description):
g.	Does the active sewage sludge unit have a leachate collection system? YesNo
	If yes, describe the leachate collection system (or attach a description). Also describe the method used for leachate disposal and provide
	the numbers of any Federal, State, or local permit(s) for leachate disposal:
h.	If you answered no to either D.1.f. or D.1.g., answer the following question:
	Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site? Yes No
	If yes, provide the actual distance in meters:
	Provide the following information:
	Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons
	Anticipated closure date for active sewage sludge unit, if known:(MM/DD/YYYY)
	Provide, with this application, a copy of any closure plan that has been developed for this active sewage sludge unit.

walnut creek wwto AL0054631

Form Approved 1/14/99 OMB Number 2040-0086

E .	INC	NERATION
Cor	nplet	e this section if you fire sewage sludge in a sewage sludge incinerator.
	•	e this section once for each incinerator in which you fire sewage sludge. If you fire sewage sludge in more than one sewage ncinerator, attach additional copies of this section s necessary.
E.1.	Inci	nerator Information.
	a.	Incinerator name or number:
	b.	Incinerator location (Complete 1 and 2).
	.	Street or Route #
		County
		City or Town State Zip Zip
		2. Latitude Longitude
		Method of latitude/longitude determination: USGS map Field survey Other
E.2.	Am	ount Fired. Dry metric tons per 365-day period of sewage sludge fired in the sewage sludge incinerator: dry metric tons
E.3.	Ber	yllium NESHAP.
	a.	Is the sewage sludge fired in this incinerator "beryllium-containing waste," as defined in 40 CFR Part 61.31? Yes No
		Submit, with this application, information, test data, and description of measures taken that demonstrate whether the sewage sludge incinerated is beryllium-containing waste, and will continue to remain as such.
	b.	If the answer to (a) is yes, submit with this application a complete report of the latest beryllium emission rate testing and documentation of ongoing incinerator operating parameters indicating that the NESHAP emission rate limit for beryllium has been and will continue to be met.
E.4.	Mer	cury NESHAP.
	a.	How is compliance with the mercury NESHAP being demonstrated?
		Stack testing (if checked, complete E.4.b)
		Sewage sludge sampling (if checked, complete E.4.c)
	b.	If stack testing is conducted, submit the following information with this application:
		A complete report of stack testing and documentation of ongoing incinerator operating parameters indicating that the incinerator has met, and will continue to meet, the mercury NESHAP emission rate limit.
		Copies of mercury emission rate tests for the two most recent years in which testing was conducted.
	C.	If sewage sludge sampling is used to demonstrate compliance, submit a complete report of sewage sludge sampling and documentation of ongoing incinerator operating parameters indicating that the incinerator has met, and will continue to meet the mercury NESHAP emission rate limit.
E.5.	Dis	persion Factor.
	a.	Dispersion factor, in micrograms/cubic meter per gram/second:
	b.	Name and type of dispersion model:
	C.	Submit a copy of the modeling results and supporting documentation with this application.

			Approved 1/14/99 Number 2040-0086			
E.6.	Con a.	ontrol Efficiency. Control efficiency, in hundredths, for the following pollutants:				
		Arsenic: Chromium: Nickel:				
		Cadmium: Lead:				
	b.	Submit a copy of the results or performance testing and supporting documentation (including testing dates) with this ap	oplication.			
E.7.	Risk	sk Specific Concentration for Chromium.				
	a.	Risk specific concentration (RSC) used for chromium, in micrograms per cubic meter:				
	b.	Which basis was used to determine the RSC?				
		Table 2 in 40 CFR 503.43				
		Equation 6 in 40 CFR 503,43 (site-specific determination)				
	C.	If Table 2 was used, identify the type of incinerator used as the basis:				
		Fluidized bed with wet scrubber				
		Fluidized bed with wet scrubber and wet electrostatic precipitator				
		Other types with wet scrubber				
		Other types with wet scrubber and wet electrostatic precipitator				
	d.	If Equation 6 was used, provide the following:				
		Decimal fraction of hexavalent chromium concentration to total chromium concentration in stack exit gas:				
		Submit results of incinerator stack tests for hexavalent and total chromium concentrations, including date(s) of test, wit	h this application.			
F.8	Inci	cinerator Parameters				
	a.	Do you monitor Total Hydrocarbons (THC) in the sewage sludge incinerator's exit gas? Yes	No			
		Do you monitor Carbon Monoxide (CO) in the sewage sludge incinerator's exit gas? Yes	No			
	b. Incinerator type:					
	C.	Incinerator stack height, in meters:				
		Indicate whether value submitted is: Actual stack height Creditable stack height				
E.9.	Perf	rformance Test Operating Parameters				

a. Maximum Performance Test Combustion Temperature:

b. Performance test sewage sludge feed rate, in dry metric tons/day:______

indicate whether value submitted is:

_____Average use _____Maximum design

Submit, with this application, supporting documents describing how the feed rate was calculated.

c. Submit, with this application, information documenting the performance test operating parameters for the air pollution control device(s) used for this sewage sludge incinerator.

		wwto AL0054631		Approved 1/14/99 Number 2040-0086
E.10.	Mo a.	nitoring Equipment. List the equipment in place to monitor the following Total hydrocarbons or carbon monoxide:		-
	b.	Percent oxygen:		-
	C.	Moisture content:		-
	d.	Combustion temperature:		-
	e.	Other:		-
E.11.		Pollution Control Equipment. Submit, with this application, a list inerator.	of all air pollution control equipment used with t	his sewage sludge
	_			
			Array (1997)	

EPA Form 3510-2S (Rev. 1-99) Page 23 of 23

205.345.0816 tel 205.343.0635 fax www.TTLINC.com

October 03, 2018

Mr. Anthony Robinson City of Clanton - WWTP 1574 County Road 51 P. O. Box 580 Clanton, AL 35046



RE: NPDES AL0054631 - EPA Form 2A - Sampling #1

Work Order Number: 180905048

Dear Client:

TTL, Inc. received sample(s) and/or data on Wednesday, September 05, 2018 for the information presented in the attached report.

If you should have any questions regarding this information, please feel free to call. The work order number shown above will assist us in accessing your data more efficiently.

Thank you for the opportunity to provide these services.

Sincerely TTL Inc.

Senior Vice President

Attachments

cc: Mr. Jonah Taylor jonah.taylor@krebseng.com

cc: Mr. Danny Holmberg danny.holmberg@krbseng.com



205.345.0816 tel 205.343.0635 fox

Date: 03-Oct-18

CLIENT:

City of Clanton - WWTP

Project:

NPDES AL0054631 - EPA Form 2A - Sampling #1

Lab Order:

180905048

CASE NARRATIVE

The samples were analyzed in general accordance with Method 1631 E outlined in "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40 CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

To help with completing the EPA Form 2A, the following is a list of compounds that are listed by one name in our report and another on the Form:

Report = Form 2A

VOLATILES

Bromodichloromethane = Dichlorobromo-methane
Dibromochloromethane = Chlorodibromo-methane
trans-1,2-dichloroethene = trans-1,2-dichloro-ethylene
1,1-dichloroethene = 1,1-dichloroethylene
cis-1,3-dichloropropene plus trans-1,3-dichloropropene = 1,3-dichloro-propylene
Bromomethane = Methyl Bromide
Chloromethane = Methyl Chloride
Tetrachloroethene = Tetrachloro-ethylene
Trichloroethene = Trichloro-ethylene

BASE-NEUTRAL/ACID-EXTRACTABLE

4-Chloro-3-methylphenol = P-Chloro-M-Cresol 4,6-Dinitro-2-methylphenol = 4,6-Dinitro-O-Cresol Benzo(b)fluoranthene = 3,4 Benzo-Fluoranthene

Deliza(b) illustratificate o, 4 Beliza 1 Idalatificate

A "L" qualifier in the "Qual" column indicates analyte exceeded LCS acceptance limits.

A "Q" qualifier in the "Qual" column indicates analyte out of range in quality control check.



205.345.0816 tel 205.343.0635 fax www.TTLINC.com

Date: 03-Oct-18

CLIENT:

City of Clanton - WWTP

Lab Order:

180905048

Project:

NPDES AL0054631 - EPA Form 2A - Sampling #1

Lab ID: 180905048-001 Collection Date: 09/05/2018 8:00

Client Sample ID: Effluent - Composite Matrix: Aqueous

Client Sam	ple ID: Effluent - Compo	Matrix: Aqueous				
Analyses		Result	Limit	Units	DF	Date Analyzed
METALS BY	ICP-MS IN AQUEOUS SA	AMP	200.8	Prep:(200.8)	09/07/20	18 10:00 Analyst: TBC
Antimony, as	s Sb	< 0.0005	0.0005	mg/L	1	09/27/2018 15:00
Arsenic, as A	As	< 0.0005	0.0005	mg/L	1	09/27/2018 15:00
Beryllium, as	s Be	< 0.0005	0.0005	mg/L	1	09/27/2018 15:00
Cadmium, as	s Cd	< 0.0005	0.0005	mg/L	1	09/27/2018 15:00
Chromium, a	es Cr	< 0.0005	0.0005	mg/L	1	09/27/2018 15:00
Copper, as C	Cu	0.0021	0.0005	mg/L	1	09/27/2018 15:00
Lead, as Pb		0.0012	0.0005	mg/L	1	09/27/2018 15:00
Nickel, as Ni		0.0639	0.0005	mg/L	1	09/27/2018 15:00
Selenium, as	s Se	< 0.0005	0.0005	mg/L	1	09/27/2018 15:00
Silver, as Ag		< 0.0005	0.0005	mg/L	1	09/27/2018 15:00
Thallium, as	TI	< 0.0010	0.0010	mg/L	1	09/27/2018 15:00
Zinc, as Zn		0.0208	0.0010	mg/L	1	09/27/2018 15:00
TOTAL HAR	DNESS		E200.7	Prep:(E200.7)	09/07/201	8 10:00 Analyst: SFC
Hardness, Ca CaCO3)	alcium/Magnesium (As	94.7	1.00	mg/L	1	10/01/2018 0:00
Hardness, Ca	alcium (As CaCO3)	73.1	1.00	mg/L	1	10/01/2018 0:00
Hardness, Ma	agnesium (As CaCO3)	21.6	1.00	mg/L	1	10/01/2018 0:00
TOTAL DISS	OLVED SOLIDS		M2540 C	Prep:		Analyst: AEB
Total Dissolve	ed Solids	328	20.0	mg/L	1	09/07/2018 9:00
Lab ID:	180905048-002			Collection D	Date: 09/0	5/2018 8:00
Client Sample ID: Effluent - Grab				Ma	trix: Aque	eous
Analyses		Result	Limit	Units	DF	Date Analyzed
CYANIDE TO	ΙΔΙ	M	4500-CN CE	Pren-		Analyst: TOT

C CYANIDE, TOTAL M4500-CN CE Prep: Analyst: TRT Cyanide, Total < 0.010 0.010 mg/L 08/16/2018 8:00 **OIL AND GREASE BY 1664A** E1664A Prep: Analyst: JTL Oil and Grease 2.7 1.4 mg/L 09/12/2018 3:00 PHENOLS, TOTAL M5330 BD 2005 Prep: Analyst: KMC **Phenois** < 0.10 0.10 mg/L 09/26/2018 7:00



205 345 0816 tol 205.343.0635 fax www.TTLINC.com

Date: 03-Oct-18

CLIENT:

City of Clanton - WWTP

Lab Order:

180905048

Project:

NPDES AL0054631 - EPA Form 2A - Sampling #1

180905048-003 Lab ID:

Collection Date: 09/05/2018 9:35

Client Sample ID: HG-LL - Effluent

Matrix: Aqueous

Result

Units

DF **Date Analyzed**

MERCURY LOW LEVEL Mercury, Low Level as Hg

1.26

Prep: 0.50 ng/L

Analyst: PACE 09/15/2018 15:15

Lab ID:

Analyses

Analyses

180905048-004

Collection Date: 09/05/2018 9:35

Client Sample ID: HG-LL - Spike

Matrix: Aqueous

Limit

E1631

Limit

Units DF

Date Analyzed

MERCURY LOW LEVEL

Mercury, Low Level as Hg

E1631 0.50

Prep: %

Analyst: PACE 09/15/2018 15:15

Lab ID:

Analyses

180905048-005

Collection Date: 09/05/2018 9:35

Client Sample ID: HG-LL - Spike/Duplicate

Matrix: Aqueous

Result

Result

72

Result

70

Units Limit

DF

Date Analyzed

Analyst: PACE

MERCURY LOW LEVEL Mercury, Low Level as Hg

E1631 0.50 Prep: %

09/15/2018 15:15 1

Lab ID:

180905048-006

Collection Date: 09/05/2018 9:35

Client Sample ID: HG-LL - Field Blank

Limit

Matrix: Aqueous

Date Analyzed

Analyses

Units

DF

MERCURY LOW LEVEL Mercury, Low Level as Ho

E1631 < 0.50

Prep: 0.50 ng/L

DF

Analyst: PACE 09/15/2018 15:15

Date Analyzed

Lab ID:

180905048-007

Collection Date: 09/05/2018 9:35

Client Sample ID: HG-LL - Field Duplicate

E1631

Matrix: Aqueous

Analyses

Result

Limit

Units

MERCURY LOW LEVEL Mercury, Low Level as Hg

1.23

0.50

Prep: ng/L

Analyst: PACE 09/15/2018 15:15

Page 2 of 2



205.345.0816 tel 205.343.0635 fax www.TTLINC.com

Date: 03-Oct-18

CLIENT:

City of Clanton - WWTP

Lab Order:

180905048

Project:

NPDES AL0054631 - EPA Form 2A - Sampling #1

Lab ID: 180905048-001

Client Sample ID: Effluent - Composite

Collection Date: 09/05/2018 8:00

Matrix: Aqueous

Onene Gampio ID. Lindow Competito								
Analyses	Result	Limit	Qual	Units	DF	Date Analyzed		
SEMIVOLATILE ORGANICS BY 625		E625	1	Prep:(E625)	09/10/201	8 7:30 Analyst: ShMK		
1,2,4-Trichlorobenzene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
1,2-Diphenylhydrazine	< 0.050	0.050		mg/L	1	09/18/2018 16:32		
2,4,6-Trichlorophenol	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
2,4-Dichlorophenol	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
2,4-Dimethylphenol	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
2,4-Dinitrophenol	< 0.050	0.050		mg/L	1	09/18/2018 16:32		
2,4-Dinitrotoluene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
2,6-Dinitrotoluene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
2-Chloronaphthalene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
2-Chlorophenol	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
2-Nitrophenol	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
3,3'-Dichlorobenzidine	< 0.020	0.020		mg/L	1	09/18/2018 16:32		
4,6-Dinitro-2-methylphenol	< 0.050	0.050		mg/L	1	09/18/2018 16:32		
4-Bromophenyl phenyl ether	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
4-Chloro-3-methylphenol	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
4-Chlorophenyl phenyl ether	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
4-Nitrophenol	< 0.050	0.050		mg/L	1	09/18/2018 16:32		
Acenaphthene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Acenaphthylene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Anthracene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Benz(A)anthracene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Benzidine	< 0.050	0.050	L	mg/L	1	09/18/2018 16:32		
Benzo(a)pyrene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Benzo(b)fluoranthene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Benzo(g,h,i)perylene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Benzo(k)fluoranthene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Bis(2-chloroethoxy)methane	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Bis(2-chloroethyl)ether	< 0.010	0.010		m g/L	1	09/18/2018 16:32		
Bis(2-chloroisopropyl)ether	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Bis(2-ethylhexyl)phthalate	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Butyl benzyl phthalate	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Chrysene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Dibenz(a,h)anthracene	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Diethyl phthalate	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Dimethyl phthalate	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Di-n-butyl phthalate	< 0.010	0.010		mg/L	1	09/18/2018 16:32		
Di-n-octyl phthalate	< 0.010	0.010		mg/L	1	09/18/2018 16:32		

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at or above the Method Detection Limit
- X %D Exceeds limits



205.345.0816 tel 205.343.0635 fax www.TTLINC.com

Date: 03-Oct-18

CLIENT:

City of Clanton - WWTP

Lab Order:

180905048

Project:

NPDES AL0054631 - EPA Form 2A - Sampling #1

EMIVOLATILE ORGANICS BY	625	E625	Prep:(E625)	09/10/2018	7:30 Analyst:	ShMK
Fluoranthene	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
Fluorene	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
Hexachlorobenzene	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
Hexachlorobutadiene	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
Hexachlorocyclopentadiene	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
Hexachloroethane	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
Indeno(1,2,3-cd)pyrene	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
Isophorone	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
Naphthalene	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
Nitrobenzene	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
N-Nitrosodimethylamine	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
N-Nitrosodi-n-propylamine	< 0.010	0.010	mg/L	1 (09/18/2018 16:32	
N-Nitrosodiphenylamine	< 0.010	0.010	mg/L	1 (9/18/2018 16:32	
Pentachlorophenol	< 0.025	0.025	mg/L	1 (9/18/2018 16:32	
Phenanthrene	< 0.010	0.010	mg/L	1 (9/18/2018 16:32	
Phenol	< 0.010	0.010	mg/L	1 (9/18/2018 16:32	
Pyrene	< 0.010	0.010	mg/L	1 (9/18/2018 16:32	

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- 8 Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at or above the Method Detection Limit
- X %D Exceeds limits



205.345.0816 tel 205.343.0635 fax www.TTLINC.com

Date: 03-Oct-18

CLIENT:

City of Clanton - WWTP

Lab Order:

180905048

Project:

NPDES AL0054631 - EPA Form 2A - Sampling #1

Lab ID: 180905048-002

Client Sample ID: Effluent - Grab

Collection Date: 09/05/2018 8:00

Matrix: Aqueous

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS METHOD	E624	Prep:			Analyst: LAA	
1,1,1-Trichloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:14
1,1,2,2-Tetrachloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:14
1,1,2-Trichloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:14
1,1-Dichloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:14
1,1-Dichloroethene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
1,2-Dichlorobenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
1,2-Dichloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:14
1,2-Dichloropropane	< 0.005	0.005		mg/L	1	09/07/2018 20:14
1,3-Dichlorobenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
1,4-Dichlorobenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
2-Chloroethyl vinyl ether	< 0.010	0.010		mg/L	1	09/07/2018 20:14
Acrolein	< 0.100	0.100	Q	mg/L	1	09/07/2018 20:14
Acrylonitrile	< 0.100	0.100		mg/L	1	09/07/2018 20:14
Benzene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Bromodichloromethane	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Bromoform	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Bromomethane	< 0.010	0.010		mg/L	1	09/07/2018 20:14
Carbon tetrachloride	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Chlorobenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Chloroethane	< 0.010	0.010		mg/L	1	09/07/2018 20:14
Chloroform	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Chloromethane	< 0.005	0.005		mg/L	1	09/07/2018 20:14
cis-1,3-Dichloropropene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Dibromochloromethane	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Ethylbenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Methylene chloride	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Tetrachioroethene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Toluene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
trans-1,2-Dichloroethene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
trans-1,3-Dichloropropene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Trichloroethene	< 0.005	0.005		mg/L	1	09/07/2018 20:14
Vinyl chloride	< 0.002	0.002		mg/L	1	09/07/2018 20:14

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at or above the Method Detection Limit
- X %D Exceeds limits



205.345.0816 tel 205.343.0635 fax www.TTLINC.com

Date: 03-Oct-18

CLIENT:

City of Clanton - WWTP

Lab Order:

180905048

Project:

Client Sample ID: Trip Blank

NPDES AL0054631 - EPA Form 2A - Sampling #1

Lab ID: 180905048-008 Collection Date: 09/05/2018 0:00

Matrix: Aqueous

Cheft Sample 10. The Blank		Matrix. //queeus					
Analyses	Result	Limit	Qual	Units	DF	Date Analyzed	
VOLATILES BY GC/MS METHOD 6	524 E6		Р	rep:		Analyst: LAA	
1,1,1-Trichloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
1,1,2,2-Tetrachloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
1,1,2-Trichloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
1,1-Dichloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
1,1-Dichloroethene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
1,2-Dichlorobenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
1,2-Dichloroethane	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
1,2-Dichloropropane	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
1,3-Dichlorobenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
1,4-Dichlorobenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
2-Chloroethyl vinyl ether	< 0.010	0.010		mg/L	1	09/07/2018 20:42	
Acrolein	< 0.100	0.100	Q	mg/L	1	09/07/2018 20:42	
Acrylonitrile	< 0.100	0.100		mg/L	1	09/07/2018 20:42	
Benzene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Bromodichloromethane	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Bromoform	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Bromomethane	< 0.010	0.010		mg/L	1	09/07/2018 20:42	
Carbon tetrachloride	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Chlorobenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Chloroethane	< 0.010	0.010		mg/L	1	09/07/2018 20:42	
Chloroform	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Chloromethane	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
cis-1,3-Dichloropropene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Dibromochloromethane	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Ethylbenzene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Methylene chloride	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Tetrachloroethene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Toluene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
trans-1,2-Dichloroethene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
trans-1,3-Dichloropropene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Trichloroethene	< 0.005	0.005		mg/L	1	09/07/2018 20:42	
Vinyl chloride	< 0.002	0.002		mg/L	1	09/07/2018 20:42	

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at or above the Method Detection Limit
- X %D Exceeds limits

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Sheet	1 .	of	1
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			LIMS Chain o	of Custody Form	Comp	osite Sample Inf	· 54	Sheet of Sample Security Requirements
	Client:		City of Clanton - WW/TP		Sample		1. Condition of 0	Contents:
	Contact:		Mr. Anthony Robinson	LIL WUKK	Start		2. Sealed for Sh	ipping By:
	Mailing Ad	ddress:	1574 County Road 51	ORDER NUMBER 180905 048	End	DATE/TIME	3. Initial Conten	ts Temp.:°C Seal Applied YesNo
	City, State	e, Zip:	Clanton, AL 35046			DATE/TIME	4. Custody Seal	Intact Upon Receipt by Laboratory: Yes No
	Phone No	D.:	205 755-2380		Sample		5. Condition of (Contents: Ct Dod Jeu
	Sampled	Ву:	CLIEST	TTI MODE	Start		6. Comments: _	0.9° Cet Tusc los
	Project ID);	Clanton-WWTP-2A-2018		End	DATE/THAE	7. Reporting Sta	itus: Routine;; Rush By*
	Project Na	ame:	NPDES AL0054631 - EPA	Form 2A - Samplin		DATE/TIME	8. Client P.O. #	SURCHARGES MAY APPLY
	Date	Time	Sample ID/Des	scription	Sample Type	Sample Method	Sample Containers	Analysis Parameters
9/	5/18	8.00 A	A Effluent - Composite		Anuenus	CUMPSA	1 1/2 DT DE HNOS	200 7ER 200 8 W 200 8ER HARD W

Date	Time	Sample ID/Description	Sample Type	Sample Method		Sample Containers	Analysis Parameters
5/18	8:00 AM	Effluent - Composite	Aqueous	COMP24	1	1/2 PT PL HNOS	200.7PR, 200.8_W, 200.6PR, HARD_W .
	8:00AM	Effluent - Composite	Aqueous	COMP24	4	1LAMGU8270	625_VVW, 625PR +
	8:00 AM	Effluent - Composite	Афиерия	COMP24	1	QT PLNP	TDS_DW ·
	8:00AM	Effluent - Grab	Aqueous	GRAB	4	AQ8260	524_2A ·
	8:00 AM	Effluent - Grab	Aqueous	GRAB	1	QT PL NAOH	CN-DW
8	CODAM	Effluent - Grab	Aqueous	GRAB	1	1LWMOG H2SO4	O&G 1664 -
8	FORAM	Effluent - Grab	Aqueous	GRAB	1	1LAMGH2SO4	PHENOLS_TRVV
	9:35	HG-LL - Efficient	Aqueous	GRAB	1	HG_LL_SOOMI CG TT	HG_LL
	9:35	HG-LL - Spike	Aqueous	GRAB	1	HG_LL_500ml CG TT	HG_IT
		HG-LL - Spike/Duplicate	Aqueous	GRAB	1	HG_LL_500ml CG TT	HG_LL
1	9:35	HG-LL - Fleid Blank	Aqueous	GRAB	1	HG_LL_500ml CG TT	HG_LL
	9:35	HG-LL - Field Dupilicate	Aqueous	GRAB	1	HG_LL_500ml CG TT	HG_LL
	- 1	Trip Blank	Aqueous	GRAB	4	AQ8250	624 2ABLANK

Ş	Relinguished by: (signed) Date/Time	Received by (signed) Date/Time	
SFE	1 Inthon Xeller 9/5/18 10:20 Am	1 /factor (land 9/5/18 10:20	S Air Bill #:
HAR			Method of Shipment:
2	2 fp. lor (lovely 9/5/18 15:40	2	5
Sic	3	3	Received By Lab:
5			# Date/Time 9-5-18 15.40
	4	4	•

Client CLANTON WINTP Date/Time 9/5/18			ID OGH WWAP
Sampling	Personne	<u>l</u> :	
Clean Hands (CH): HARLAN CLA	esp,	TT	
Dirty Hands (DH): Anthony Kelley			
Equipment D	ocumenta	ition:	
CH & DH have a wind suit on?	YES	NO	(ULINE #S-17924 XL 2XL)
CH has shoulder length gloves on?	YES	NO	(ULINE #S-20329)
CH & DH have latex, powder free gloves on?	YES	NO	(American Osment #8645)

TTL LIMS Work order number added at Log Review 180 905048



205.345.0816 tel 205.343.0635 fax www.pacelabs.com

March 01, 2019

Mr. Anthony Robinson City of Clanton - WWTP 1574 County Road 51 P. O. Box 580 Clanton, AL 35046

RE: NPDES AL0054631 - EPA Form 2A - Sampling #2

Work Order Number: 190206035

Dear Client:

Pace Analytical Services, LLC received sample(s) on Wednesday, February 06, 2019 for the analyses presented in the attached report.

If you should have any questions regarding this information, please feel free to call. The work order number shown above will assist us in accessing your data more efficiently.

Thank you for the opportunity to provide these services.

Sincerely,

Pac Analytical Services

8 We Martin

Manager - Lab Operations

Attachments

cc: Mr. Danny Holmberg

danny.holmberg@krbseng.com

cc: Mr. Jonah Taylor

jonah.taylor@krebseng.com



205.345.0816 tel 205.343.0635 fax www.pacelabs.com

Date: 01-Mar-19

CLIENT:

City of Clanton - WWTP

Project:

NPDES AL0054631 - EPA Form 2A - Sampling #2

Lab Order:

190206035

CASE NARRATIVE

The samples were analyzed in general accordance with Method 1631 E outlined in "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40 CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

To help with completing the EPA Form 2A, the following is a list of compounds that are listed by one name in our report and another on the Form:

Report = Form 2A

VOLATILES

Bromodichloromethane = Dichlorobromo-methane
Dibromochloromethane = Chlorodibromo-methane
trans-1,2-dichloroethene = trans-1,2-dichloro-ethylene
1,1-dichloroethene = 1,1-dichloroethylene
cis-1,3-dichloropropene plus trans-1,3-dichloropropene = 1,3-dichloro-propylene
Bromomethane = Methyl Bromide
Chloromethane = Methyl Chloride
Tetrachloroethene = Tetrachloro-ethylene
Trichloroethene = Trichloro-ethylene

BASE-NEUTRAL/ACID-EXTRACTABLE 4-Chloro-3-methylphenol = P-Chloro-M-Cresol 4,6-Dinitro-2-methylphenol = 4,6-Dinitro-O-Cresol Benzo(b)fluoranthene = 3,4 Benzo-Fluoranthene



205.345.0816 tel 205.343.0635 fax www.pacelabs.com

Date: 01-Mar-19

CLIENT: City of Clanton - WWTP

Project: NPDES AL0054631 - EPA Form 2A - Sampling #2 Lab Order:

190206035

190206035-001 Collection Date: 02/06/2019 8:00 Lab ID:

Client Sample ID: Effluent - Com	posite	Matrix: Aqueous			
Analyses	Result	Limit	Units	DF	Date Analyzed
METALS BY ICP-MS IN AQUEOUS	SAMP	200.8	Prep:(200.8)	02/07/20	19 10:10 Analyst: TBC
Antimony, as Sb	0.0006	0.0005	mg/L	1	02/13/2019 13:37
Arsenic, as As	< 0.0005	0.0005	mg/L	1	02/08/2019 11:11
Beryllium, as Be	< 0.0005	0.0005	mg/L	1	02/08/2019 11:11
Cadmium, as Cd	< 0.0005	0.0005	mg/L	1	02/08/2019 11:11
Chromium, as Cr	0.0006	0.0005	mg/L	1	02/08/2019 11:11
Copper, as Cu	0.0032	0.0005	mg/L	1	02/08/2019 11:11
Lead, as Pb	< 0.0005	0.0005	mg/L	1	02/08/2019 11:11
Nickel, as Ni	0.0280	0.0005	mg/L	1	02/08/2019 11:11
Selenium, as Se	< 0.0005	0.0005	mg/L	1	02/08/2019 11:11
Silver, as Ag	< 0.0005	0.0005	mg/L	1	02/08/2019 11:11
Thallium, as TI	< 0.0010	0.0010	mg/L	1	02/08/2019 11:11
Zinc, as Zn	0.0132	0.0010	mg/L	1	02/08/2019 11:11
TOTAL HARDNESS		E200.7	Prep:(E200.7)	02/07/201	9 10:10 Analyst: SFC
Hardness, Calcium/Magnesium (As CaCO3)	70.4	1.00	mg/L	1	02/14/2019 0:00
Hardness, Calcium (As CaCO3)	56.7	1.00	mg/L	1	02/14/2019 0:00
Hardness, Magnesium (As CaCO3)	13.7	1.00	mg/L	1	02/14/2019 0:00
TOTAL DISSOLVED SOLIDS		M2540 C	Prep:		Analyst: AAT
Total Dissolved Solids	40.0	20.0	mg/L	1	02/09/2019 9:00



205.345.0816 tel 205.343.0635 fax www.pacelabs.com

Date: 01-Mar-19

CLIENT:

City of Clanton - WWTP

Project:

NPDES AL0054631 - EPA Form 2A - Sampling #2

Lab Order:

190206035

Lab ID:

190206035-002

Client Sample ID: Effluent - Grab

Collection Date: 02/06/2019 8:00

Matrix: Aqueous

Olient Sample ID. Lindent " Clar				•	
Analyses	Result	Limit	Units	DF	Date Analyzed
VOLATILES BY GC/MS METHOD	624	E624	Prep:		Analyst: LAA
1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:18
1,1,2,2-Tetrachioroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:18
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:18
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:18
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
1,2-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:18
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	02/19/2019 16:18
1,3-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
1,4-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	02/19/2019 16:18
Acrolein	< 0.100	0.100	mg/L	1	02/19/2019 16:18
Acrylonitrile	< 0.100	0.100	mg/L	1	02/19/2019 16:18
Benzene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Bromodichloromethane	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Bromoform	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Bromomethane	< 0.010	0.010	mg/L	1	02/19/2019 16:18
Carbon tetrachloride	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Chlorobenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Chloroethane	< 0.010	0.010	mg/L	1	02/19/2019 16:18
Chloroform	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Chloromethane	< 0.005	0.005	mg/L	1	02/19/2019 16:18
cis-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Dibromochloromethane	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Ethylbenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Methylene chloride	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Tetrachloroethene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Toluene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Trichloroethene	< 0.005	0.005	mg/L	1	02/19/2019 16:18
Vinyl chloride	< 0.002	0.002	mg/L	1	02/19/2019 16:18
CYANIDE, TOTAL		M4500-CN CE	Prep:		Analyst: AEB
Cyanide, Total	< 0.010	0.010	mg/L	1	02/11/2019 8:00
OIL AND GREASE BY 1664A		E1664A	Prep:		Analyst: AEB
Oil and Grease	< 1.4	1.4	mg/L	1	02/18/2019 15:00



205.345.0816 tel 205.343.0635 fax www.pacelabs.com

Date: 01-Mar-19

CLIENT: Project:	City of Clanton - WV NPDES AL0054631		n 2A - Samplir	ng #2	Lab Order:	190206035	
PHENOLS, T	OTAL	< 0.10	M5330 BD 20 0.10	005 Prep: mg/L	1	Analyst: KMC 02/26/2019 8:00	
Lab ID: Client Samp	190206035-003 le ID: HG-LL - Effluent			Collec	tion Date: 02/06		
Analyses		Result	Limit	Units	DF	Date Analyzed	
MERCURY L Mercury, Low		0.53	E1631 0.50	Prep: ng/L	1	Analyst: PACE 02/20/2019 10:36	
Lab ID: Client Samp	190206035-004 le ID: HG-LL - Spike			Collect	tion Date: 02/06/ Matrix: Aqueo		
Analyses		Result	Limit	Units	DF	Date Analyzed	
MERCURY LO	-	124	E1631 0.50	Prep: %	1	Analyst: PACE 02/20/2019 10:36	
Lab ID: Client Sampl	190206035-005 le ID: HG-LL - Spike/Dup	olicate		Collect	ion Date: 02/06/ Matrix: Aqueo		
Analyses		Result	Limit	Units	DF	Date Analyzed	
MERCURY LO Mercury, Low	-	82	E1631 0.50	Prep: %	1	Analyst: PACE 02/20/2019 10:36	
Lab ID:	190206035-006			Collect	ion Date: 02/06/	2019 8:00	
Client Sampl	e ID: HG-LL - Field Blan	k			Matrix: Aqueo	us	
Analyses		Result	Limit	Units	DF	Date Analyzed	
MERCURY LO Mercury, Low		< 0.50	E1631 0.50	Prep: ng/L	1	Analyst: PACE 02/20/2019 10:36	



205.345.0816 tel 205.343.0635 fax www.pacelabs.com

Date: 01-Mar-19

CLIENT: Project:

City of Clanton - WWTP

NPDES AL0054631 - EPA Form 2A - Sampling #2

Lab Order:

190206035

Lab ID:

190206035-007

Collection Date: 02/06/2019 0:00

Client Sample ID: Trip Blank		Matrix: Aqueous				
Analyses	Result	Limit	Units	DF	Date Analyzed	
VOLATILES BY GC/MS METHOD 624		E624	Prep:		Analyst: LAA	
1,1,1-Trichloroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
1,1-Dichloroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
1,1-Dichloroethene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
1,2-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
1,2-Dichloroethane	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
1,3-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
1,4-Dichlorobenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	02/19/2019 16:46	
Acrolein	< 0.100	0.100	mg/L	1	02/19/2019 16:46	
Acrylonitrile	< 0.100	0.100	mg/L	1	02/19/2019 16:46	
Benzene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Bromodichloromethane	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Bromoform	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
- Bromomethane	< 0.010	0.010	mg/L	1	02/19/2019 16:46	
Carbon tetrachloride	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Chlorobenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Chloroethane	< 0.010	0.010	mg/L	1	02/19/2019 16:46	
Chloroform	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
~ Chloromethane	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
cis-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Dibromochloromethane	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Ethylbenzene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Methylene chloride	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Tetrachloroethene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Toluene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Trichloroethene	< 0.005	0.005	mg/L	1	02/19/2019 16:46	
Vinyl chloride	< 0.002	0.002	mg/L	1	02/19/2019 16:46	

Lab ID:



205.345.0816 tel 205.343.0635 fax www.pacelabs.com

Date: 01-Mar-19

CLIENT: City of Clanton - WWTP

Client Sample ID: Effluent - Composite

Project: NPDES AL0054631 - EPA Form 2A - Sampling #2

190206035-001

Lab Order:

190206035

Collection Date: 02/06/2019 8:00

Matrix: Aqueous

Cheft Sample ID: Enident - Composite			Matrix. Aqueous					
Analyses	Result	Limit	Qual	Units	DF	Date Analyzed		
SEMIVOLATILE ORGANICS BY	625	E	625	Prep:(E625)	02/07/20	019 8:00 Analyst: ShMK		
1,2,4-Trichlorobenzene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
1,2-Diphenylhydrazine	< 0.052	0.052		mg/L	1	02/14/2019 17:35		
2,4,6-Trichlorophenol	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
2,4-Dichlorophenol	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
2,4-Dimethylphenol	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
2,4-Dinitrophenol	< 0.052	0.052	Q	mg/L	1	02/14/2019 17:35		
2,4-Dinitrotoluene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
2,6-Dinitrotoluene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
2-Chloronaphthalene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
2-Chlorophenol	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
2-Nitrophenol	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
3,3'-Dichlorobenzidine	< 0.021	0.021		mg/L	1	02/14/2019 17:35		
- 4,6-Dinitro-2-methylphenol	< 0.052	0.052		mg/L	1	02/14/2019 17:35		
4-Bromophenyl phenyl ether	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
4-Chloro-3-methylphenol	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
4-Chlorophenyl phenyl ether	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
4-Nitrophenol	< 0.052	0.052		mg/L	1	02/14/2019 17:35		
Acenaphthene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Acenaphthylene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Anthracene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Benz(A)anthracene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Benzidine	< 0.052	0.052		mg/L	1	02/14/2019 17:35		
Benzo(a)pyrene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Benzo(b)fluoranthene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Benzo(g,h,i)perylene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Benzo(k)fluoranthene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Bis(2-chloroethoxy)methane	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Bis(2-chloroethyl)ether	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Bis(2-chloroisopropyl)ether	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Bis(2-ethylhexyl)phthalate	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Butyl benzyl phthalate	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Chrysene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Dibenz(a,h)anthracene	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Diethyl phthalate	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Dimethyl phthalate	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Di-n-butyl phthalate	< 0.010	0.010		mg/L	1	02/14/2019 17:35		
Di-n-octyl phthalate	< 0.010	0.010		mg/L	1	02/14/2019 17:35		

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at or above the Method Detection Limit
- X %D Exceeds limits



205.345.0816 tel 205.343.0635 fax www.pacelabs.com

Date: 01-Mar-19

CLIENT: City of Clanton - WWTP Lab Order: 190206035

Project: NPDES AL0054631 - EPA Form 2A - Sampling #2

EMIVOLATILE ORGANICS BY	625	E625	Prep:(E625)	02/07/20	019 8:00 Analyst: ShM l
Fluoranthene	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Fluorene	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Hexachlorobenzene	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Hexachlorobutadiene	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Hexachlorocyclopentadiene	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Hexachloroethane	< 0.010	0.010	mg/L	1	02/14/2019 17:35
ndeno(1,2,3-cd)pyrene	< 0.010	0.010	mg/L	1	02/14/2019 17:35
sophorone	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Naphthalene	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Nitrobenzene	< 0.010	0.010	mg/L	1	02/14/2019 17:35
N-Nitrosodimethylamine	< 0.010	0.010	mg/L	1	02/14/2019 17:35
N-Nitrosodi-n-propylamine	< 0.010	0.010	mg/L	1	02/14/2019 17:35
N-Nitrosodiphenylamine	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Pentachlorophenol	< 0.026	0.026	mg/L	1	02/14/2019 17:35
Phenanthrene	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Phenoi	< 0.010	0.010	mg/L	1	02/14/2019 17:35
Pyrene	< 0.010	0.010	mg/L	1	02/14/2019 17:35

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at or above the Method Detection Limit

X %D Exceeds limits

475	4		
		4	

LIMS Chain of Custody Form

Composite Sample Info

	Sheet	 of	*
Sample Security	Requirements		

Client:

City of Clanton - WATE

Sample

Contact:

Mr. Anthony Robinson

PACE WORK ORDER NUMBER

190206035

2. Sealed for Shipping By:

Mailing Address:

1574 County Road 51

3. Initial Contents Temp.:_

1. Condition of Contents:

UH-

°C Seal Applied Yes____ No

City, State, Zip:

Clanton, AL 35046

4. Custody Seal Intact Upon Receipt by Laboratory:

Phone No.:

205 755-2380

5. Condition of Contents: ____ Good - Ice

Sampled By:

U°C at Tuscaloosa Lab 6. Comments: _

Project ID:

DVLA

7. Reporting Status: Routine; ______; Rush By*

Project Name:

NEDES ALDOSARRA LIERA SAMA DA

8. Client P.O. #

MEDER AFORDADES - FEW Form TW - Psychologist							
Date Tir	ne Sample ID/Description	Sample Type	Sample Method	Sí	ample Containers	Analysis Parameters	
2-06-19	Sign, Effluent - Composite	Адрезая	COMP04	1	1/2 PT PL HNO3	200.7PR 200.8_VV 200.5PR HIARD_VV	
2-06-14-	See Emilient - Composite	Адивоия	COMP24	ڹؙ	11494308270	625_VVVV, 625P R	
2-06-19-	Sty_Effluent - Composite	Aqueous	COMPSA	i	QT PUNP	WO_SGT	
2-06-10.	-Solc Efficent - Grac	Афиесия	GRAE	Ą	AG8260	524_RA	
	805 Effluent - Grab	4009009	GRAB	1	OT PL NAOH	CM-DAA	
2-06-19	_805 Effluent - Grab	ਅਧੀਸਵਰਧਣ	GP 48	1	TUMMOG H2SO4	O&G 1664	
206-1	1-905 Efficient - Grab	Aqueous	GRAB	1	#LAMIGH2SO#	PHENOLS_TEW	
	4-806 HG-LL - Effluent	euceup.	GRAS	45	HG_LL_500micGTT	ಗ ್ತ ದ	
2006-1	4.86 HG-LL - Spike	Aqueous	GRAB	3	HG_UL_500micGTT	нет	
2-01-1	1_866 HG-LL - Spike/Duplicate	Aqueous	GRAB	3	HG_LL_SOOMICG TT	HG_LL	
2-81-19	5 - 806 HG-LL - Field Blank	Aqueous	GRAB	1	HG_LL_500ml CG TT	HG_LL	
206-1	-86 Trip Blank	Aqueous	GRAB	4	ÀQ6260	524_2ABL4NK	

Q.	Relinquished by: (signed) Date/Time	Received by (signed) Date/Time	
Ï	0 · BA	2/10/19 9:19 , 1 holan / lawle 2/11/19 9:19	Air Bill #:
2	1 Jan Jan	2/6/19 9:19 phelon Slawly 2/6/19 9:19	<u>¥</u>
\$	111 // //	2/4/2/4:56	Method of Shipment:
= 7	I factor bardy	44/11/13/2	5
3	1		Received By Lab:
2	3	3	7 (1/15-
3			Date/Time
4	4	4	

EPA Method 1669

Manual collection directly into sample bottle

Client City of charton WWTP Date/Time 02/04/2019 11:30 Am		ID WW TP OUT FALL	30/
Clean Hands (CH):			
Dirty Hands (DH): Zhomas Bar	rett		
CH & DH have a wind suit on?	(YES) NO	(ULINE #S-17924 XL 2XL)	
CH has shoulder length gloves on?	(YES) NO	(ULINE #S-20329)	
CH & DH have latex, powder free gloves on?	YES NO	(ULINE #S-6606)	
Sample Kit/Bottles less than 90 days old?	YES NO	(Southern Analytical)	
	1 / .		
Data kit received from Couthern Analytical I al	01/31/2019		

TTL LIMS Work order number added at Log Review 190 206035



205.614.6630 tel 205.343.0635 fax www.pacelabs.com

May 25, 2019

Mr. Anthony Robinson City of Clanton - WWTP 1574 County Road 51 P. O. Box 580 Clanton, AL 35046

RE: NPDES AL0054631 - EPA Form 2A - Sampling #3

Work Order Number: 190508038

Dear Client:

Pace Analytical, LLC received sample(s) and/or data on Wednesday, May 08, 2019 for the information presented in the attached report.

If you should have any questions regarding this information, please feel free to call. The work order number shown above will assist us in accessing your data more efficiently.

Thank you for the opportunity to provide these services.

Sincerely,

Pacid Analytical Services

∯d√d Martin

Manager - Lab Operations

Attachments

cc: Mr. Danny Holmberg

danny.holmberg@krbseng.com

cc: Mr. Jonah Taylor

jonah.taylor@krebseng.com



205.614.6630 tel 205.343.0635 fax www.pacelabs.com

Date: 25-May-19

CLIENT:

City of Clanton - WWTP

Project:

NPDES AL0054631 - EPA Form 2A - Sampling #3

Lab Order:

190508038

CASE NARRATIVE

The samples were analyzed in general accordance with methods outlined in 40 CFR, Part 136 and Method 1631E outlined in "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40 CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

To help with completing the EPA Form 2A, the following is a list of compounds that are listed by one name in our report and another on the Form:

Report = Form 2A

VOLATILES

Bromodichloromethane = Dichlorobromo-methane
Dibromochloromethane = Chlorodibromo-methane
trans-1,2-dichloroethene = trans-1,2-dichloro-ethylene
1,1-dichloroethene = 1,1-dichloroethylene
cis-1,3-dichloropropene plus trans-1,3-dichloropropene = 1,3-dichloro-propylene
Bromomethane = Methyl Bromide
Chloromethane = Methyl Chloride
Tetrachloroethene = Tetrachloro-ethylene
Trichloroethene = Trichloro-ethylene

BASE-NEUTRAL/ACID-EXTRACTABLE

4-Chloro-3-methylphenol = P-Chloro-M-Cresol 4,6-Dinitro-2-methylphenol = 4,6-Dinitro-O-Cresol Benzo(b)fluoranthene = 3,4 Benzo-Fluoranthene

Page 1 of 1



205.614.6630 tel 205.343.0635 fax www.pacelabs.com

Date: 25-May-19

CLIENT: City of Clanton - Project: NPDES AL0054		m 2A - Samplir		Lab Order:	190508038	
Lab ID: 190508038-0	01		Collection	Date: 05/08/	2019 8:00	
Client Sample ID: Effluent - Composite		Matrix: Aqueous				
Analyses	Result	Limit	Units	DF	Date Analyzed	
METALS BY ICP-MS IN AQUEOUS SAMP 200.8		Prep:(200.8)	05/14/2019 9	9:14 Analyst: PACE		
Antimony, as Sb	< 0.0010	0.0010	mg/L	1	05/17/2019 13:05	
Arsenic, as As	< 0.0010	0,0010	mg/L	1 .	05/17/2019 13:05	
Beryllium, as Be	< 0.0005	0.0005	mg/L	1	05/17/2019 13:05	
Cadmium, as Cd	< 0.0010	0.0010	-mg/L	1	05/17/2019 13:05	
Calcium, as Ca	24.40	0.1000	mg/L	1	05/17/2019 13:05	
Chromium, as Cr	< 0.0010	0.0010	. mg/L	1	05/17/2019 13:05	
Copper, as Cu	< 0.0030	0.0030	mg/L	1	05/17/2019 13:05	
Hardness, Calcium/Magnesium (As CaCO3)	77.9	0.0050	mg/L	1	05/17/2019 13:05	
Lead, as Pb	< 0.0010	0.0010	mg/L	1	05/17/2019 13:05	
Magnesium, as Mg	4.100	0.1000	mg/L	1	05/17/2019 13:05	
Nickel, as Ni	0.0260	0.0010	mg/L	1	05/17/2019 13:05	
Selenium, as Se	< 0.0010	0.0010	mg/L	1	05/17/2019 13:05	
Silver, as Ag	< 0.0005	0.0005	mg/L	1	05/17/2019 13:05	
Thallium, as TI	< 0.0005	0.0005	mg/L	1	05/17/2019 13:05	
Zinc, as Zn	0.0310	0.0050	mg/L	1	05/17/2019 13:05	
TOTAL DISSOLVED SOLIDS		M2540 C	Prep:		Analyst: PACE	
Total Dissolved Solids	250	10	mg/L	1	05/13/2019 16:29	
Lab ID: 190508038-00	02		Collection Date: 05/08/2019 8:10			
Client Sample ID: Effluent - Grain	b	· .	Matrix: Aqueous			
Analyses	Result	Limit	Units	DF	Date Analyzed	
CYANIDE, TOTAL Cyanide, Total	₹ 0.020	14500-CN CE 0.020	Prep: mg/L	1	Analyst: PACE 05/15/2019 9:54	
OIL AND GREASE BY 1664A Oil and Grease	< 5.6	E1664A 5.6	Prep: mg/L	t :	Analyst: PACE 05/21/2019 8:01	

M5330 BD 2005

< 0.20

Prep:

mg/L

Page 1 of 2

Analyst: PACE

05/16/2019 17:15

PHENOLS, TOTAL

Phenols

3516 Greensboro Avenue P. O. Drawer 1128 (35403) Tuscaloosa, AL 35401



205.614.6630 tel 205.343.0635 fax www.pacelabs.com

Date: 25-May-19

CLIENT: Project:	City of Clanton - WI NPDES AL0054631		n 2A - Samplin	g #3	Lab Order:	190508038
Lab ID:	190508038-003			Collect	ion Date: 05/08	/2019 8:15
Client Sample	ID: HG-LL - Effluent				Matrix: Aqueo	ous
Analyses		Result	Limit	Units	DF	Date Analyzed
MERCURY LOV Mercury, Low Le		0.51	E1631 0.50	Prep: ng/L	1	Analyst: PAGE 05/18/2019 13:25
Lab ID:	190508038-004			Collect	ion Date: 05/08	/2019 8:15
Client Sample	ID: HG-LL - Spike			•	Matrix: Aqueo	ous
Analyses		Result	Limit	Units	DF	Date Analyzed
MERCURY LOV Marcury, Low Le		90	E1631 0,50	Prep: %	1	Analyst: PACE 05/18/2019 13:25
Lab ID:	190508038-005			Collect	ion Date: 05/08	/2019 8:15
Client Sample	ID: HG-LL - Spike/Du	uplicate			Matrix: Aqueo	ous
Analyses		Result	Limit	Units	DF	Date Analyzed
MERCURY LOW Mercury, Low Le		: . 76	E1631 0.50	Prep: %	1	Analyst: PACE 05/18/2019 13:25
Lab ID:	190508038-006	···		Collect	ion Date: 05/08	/2019 8:15
Client Sample	ID: HG-LL - Field Bla	ınk .			Matrix: Aque	ous
Analyses		Result	Limit	Units	DF	Date Analyzed
MERCURY LOW Mercury, Low Low		< 0.50	E1631 0,50	Prep:	1 -	Analyst: PACE 05/18/2019 13:25

Page 2 of 2



May 14, 2019

Terry Canterbury Pace-TTL 3516 Greensboro Avenue Tuscaloosa, AL 35401

RE: Project: 190508038

Pace Project No.: 20103899

Dear Terry Canterbury:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kauntlaour

Karen Brown karen.brown@pacelabs.com (504)469-0333 Project Manager

Enclosures

cc: Brandon Pierce, Pace-TTL



REPORT OF LABORATORY ANALYSIS

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Page 1 of 15

Pace Analytical Services, LLC 1000 Riverband Blvd - Suile F St. Rose, LA 70087 (504)469-0333



CERTIFICATIONS

Project:

190508038

Pace Project No.:

20103899

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch:

11277CA

Florida Department of Health (NELAC): E87595 Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Pennsylviania Dept. of Env Protection (NELAC): 68-04202

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-

00119

Commonwealth of Virginia (TNI): 480246

REPORT OF LABORATORY ANALYSIS

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Page 2 of 15

2675256799 GF02-20-80 .m. \$40:Ef:70 6057526799





SAMPLE SUMMARY

Project:

190508038

Pace Project No.: 20

20103899

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20103899001	190508038-001B	Water	05/08/19 08:00	05/09/19 09:00

REPORT OF LABORATORY ANALYSIS

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Page 3 of 15

2675556799 m. ii 23:25 f1:70





SAMPLE ANALYTE COUNT

Project:

190508038

Pace Project No.:

20103899

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20103899001	190508038-001B	EPA 625	 JAB	60

REPORT OF LABORATORY ANALYSIS

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Page 4 of 15



ANALYTICAL RESULTS

Project:

190508038

Pace Project No.: Sample: 190508038-001B

20103899

Lab ID: 20103899001

Collected: 05/08/19 08:00 Received: 05/09/19 09:00 Matrix: Water

delible: isseesses sais		201000000		u. uu uu , ,	. 00.00	moored. De.	10 00,00	440 H	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV 2DAY	Analytical	Method: EPA	625 Prepara	ation Metho	d: EPA	625			
Acenaphthene	ND ·	mg/L	0.0095	0,0024	1	05/11/19 12:00	05/13/19 21:54	83-32-9	
Acenaphthylene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54	208-96-8	
Anthracene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54	120-12-7	
Benzidine	ND	mg/L	0.029	0.0071	1	05/11/19 12:00			
Benzo(a)anthracene	ND	mg/L	0.0095	0.0012	1	05/11/19 12:00	05/13/19 21:54	56-55-3	
Benzo(a)pyrene	ND	mg/L	0.0095	0.0012	1	05/11/19 12:00	05/13/19 21:54	50-32-8	
Benzo(b)fluoranthene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Benzo(g,h,i)perylene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Benzo(k) fluoranthene	ND	mg/L	0.0095	0.0012	1	05/11/19 12:00	05/13/19 21:54		
4-Bromophenylphenyl ether	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Butylbenzylphthalate	ND	mg/L	0.0095	0,0024	1	05/11/19 12:00	05/13/19 21:54		
4-Chloro-3-methylphenol	ND	mg/L	0.0095	0.0024	i	05/11/19 12:00	05/13/19 21:54		
bis(2-Chloroethoxy)methane	ND	mg∕l.	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
bls(2-Chloroethyl) ether	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			
2-Chloronaphthalene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			L2
2-Chlorophenol	ND ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			LE
4-Chlorophenylphenyl ether	ND CIN	mg/L	0.0095	0.0024	1	05/11/19 12:00			
Chrysene	, ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
•	ND	•		0.0012	i				
Dibenz(a,h)anthracene		mg/L	0.0095		1	05/11/19 12:00	05/13/19 21:54		
3,3'-Dichlorobenzidine	· ND	mg/L	0.0095	0.0012	-	05/11/19 12:00			
2,4-Dichlorophenol	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Diethylphthalate	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			
2,4-Dimethylphenol	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	•		
Dimethylphthalate	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			
Di-n-butylphthalate	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			
4,6-Dinitro-2-methylphenol	ND	mg/L	0.019	0.0024	1	05/11/19 12:00		** .	
2,4-Dinitrophenol	ND	mg/L	0.038	0.0095	1	05/11/19 12:00			
2,4-Dinitrotaluene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
2,6-Dinitrotoluene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			
Di-n-octylphthalate	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			
1,2-Diphenylhydrazine	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			
bis(2-Ethylhexyl)phthalate	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Fluoranthene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Fluorene	ИD	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Hexachloro-1,3-butadiena	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Hexachlorobenzene	ND	mg/L	0.0095	0.0012	1	05/11/19 12:00	05/13/19 21:54		
Hexachlorocyclopentadiene	ND	mg/L	0.03B	0.0095	1	05/11/19 12:00	05/13/19 21:54		
Hexachloroethane	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00			L2
Indeno(1,2,3-cd)pyrene	ND	mg/L	0.0095	0,0012	1	05/11/19 12:00	D5/13/19 21:54		
Isophorone	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Naphthalene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54		
Nitrobenzene	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54	98-95-3	
2-Nitrophenol	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54	88-75-5	
4-Nitrophenol	. ND	mg/L	0.038	0.0024	1	05/11/19 12:00	05/13/19 21:54	100-02-7	
N-Nitrosodimethylamine	ND	mg/L	0.0095	0.0024	1	05/11/18 12:00	05/13/19 21:54	62-75-9	
N-Nitroso-di-n-propylamine	ND	mg/L	0.0095	0.0024	1	05/11/19 12:00	05/13/19 21:54	621-64-7	

REPORT OF LABORATORY ANALYSIS

Date: 05/14/2019 11:42 AM

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05/11/19 12:00 05/13/19 21:54 118-79-6



ANALYTICAL RESULTS

Project:

190508038

43

%.

20103899 Pace Project No.:

2,4,6-Tribromaphenol (S)

Sample: 190508038-001B Lab ID: 20103899001 Collected: 05/08/19 08:00 Received: 05/09/19 09:00 Matrix: Water Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual 625 MSSV 2DAY Analytical Method: EPA 625 Preparation Method: EPA 625 N-Närosodiphenylamine ND 0.0095 0.002405/11/19 12:00 05/13/19 21:54 86-30-6 mg/L 1 2,2'-Oxybis(1-chloropropane) ND mg/L 0.0095 0.0024 05/11/19 12:00 05/13/19 21:54 108-60-1 0.038 Pentachiorophenol ND mg/L 0.0048 05/11/19 12:00 05/13/19 21:54 87-86-5 1 Phenanthrene ND mg/L 0.0095 0.0024 05/11/19 12:00 05/13/19 21:54 85-01-8 1 Phenol ND mg/L 0.0095 0.0026 05/11/19 12:00 05/13/19 21:54 108-95-2 Pyrene ND mg/L 0.0095 0.0024 05/11/19 12:00 05/13/19 21:54 129-00-0 mg/L 05/11/19 12:00 05/13/19 21:54 120-82-1 1,2,4-Trichlorobenzene ND 0.0095 0.0024 12 2,4,6-Trichlorophenol ND mg/L 0.0095 0.0024 05/11/19 12:00 05/13/19 21:54 88-06-2 Surrogates Nitrobenzene-d5 (S) 77 %. 33-120 05/11/19 12:00 05/13/19 21:54 4165-60-0 2-Fluorobiphenyl (S) 62 %. 34-117 05/11/19 12:00 05/13/19 21:54 321-60-8 Terphenyl-d14 (S) 69 %. 24-133 05/11/19 12:00 05/13/19 21:54 1718-51-0 Phenol-d6 (S) 05/11/19 12:00 05/13/19 21:54 13127-88-3 27 %. 10-120 1 2-Fluorophenal (S) 38 %. 10-118 05/11/19 12:00 05/13/19 21:54 367-12-4

25-145

REPORT OF LABORATORY ANALYSIS

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6107-50-60 .m.6 62:41:70 2057555999



Project:

190508038

Pace Project No.:

20103899

QC Batch:

141926

Analysis Method:

EPA 625

QC Batch Method:

EPA 625

Analysis Description:

625 MSS 2DAY

Associated Lab Samples: 20103899001

METHOD BLANK: 621545

Matrix: Water

Associated Lab Samples: 20103899001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
		ND -	0.010	0.0025	05/13/19 20:12	
2,4-Trichlorobenzene	mg/L			0.0025		
,2-Diphenylhydrazine	mg/L	ND ND	0.010	0.0025	05/13/19 20:12 05/13/19 20:12	
,2'-Oxybis(1-chloropropane)	mg/L		0.010	0.0025		
.4,6-Trichlorophenol	mg/L	ND	0.010		05/13/19 20:12	
,4-Dichlorophenol	mg/L	ND	0.010	0.0025	05/13/19 20:12	
4-Dimethylphenol	mg/L	ND	0.010	0.0025	05/13/19 20:12	
,4-Dinitrophenol	mg/L	ND	0.040	0.010	05/13/19 20:12	
,4-Dinitrotoluene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
,6-Dinitratoluene .	mg/L	ND	0.010	0.0025	05/13/19 20:12	
-Chloronaphthalene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
-Chlorophenol	mg/L	ND	0,010	0.0025	05/13/19 20:12	
-Nitrophenol	mg/L	ИD	0.010	0.0025	05/13/19 20:12	
,3'-Dichlorobenzidine	mg/L	ND	0.010	0.0012	05/13/19 20:12	
,6-Dinitro-2-methylphenol	mg/L	. ND	0,020	0.0025	05/13/19 20:12	
-Bromophenylphenyl ether	mg/L	ND	0.010	0.0025	05/13/19 20:12	
-Chioro-3-methylphenoi	mg/L	ND	0.010	0.0025	05/13/19 20:12	
-Chlorophenyiphenyl ether	mg/L	ND	0.010	0.0025	05/13/19 20:12	
-Nitrophenol	mg/L	ND	0.040	0.0825	05/13/19 20:12	
cenaphthene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
cenaphthylene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
nthracene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
enzidine	mg/L	ND	0.030	0.0075	05/13/19 20:12	
enzo(a)anthracene	mg/L	ND	0.010	0.0012	05/13/19 20:12	
enzo(a)pyrene	mg/L	ND	0.010	0.0012	05/13/19 20:12	
enzo(b)fluoranthene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
enzo(g,h,i)perylene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
enzo(k)fluoranthene	mg/L	ND	0.010	0.0012	05/13/19 20:12	
s(2-Chloroethoxy)methane	mg/L	ND	0.010	0.0025	05/13/19 20:12	
s(2-Chioroethyl) ether	mg/L	ND	0.010	0.0025	05/13/19 20:12	
s(2-Ethylhexyl)phthalate	mg/L	ND	0.010	0.0025	05/13/19 20:12	
utylbenzylphthalate	mg/L	ND	0.010	0.0025	05/13/19 20:12	
hrysene	mg/L	ND	0.010	0.0012	05/13/19 20:12	
i-n-butylphthalate	mg/L	, ND	0.010	0.0025	05/13/19 20:12	
i-n-octylphthalate	mg/L	ND	0.010	0.0025	05/13/19 20:12	
ibenz(a,h)anthracene	mg/L	ND	0.010	0.0012	05/13/19 20:12	
iethylphthalate	mg/L	ND	0.010	0.0025	05/13/19 20:12	
imethylphthalate	mg/L	ND	0.010	0.0025	05/13/19 20:12	
luoranthene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
luorene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
exachloro-1,3-butadiene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
exachlorobenzene	mg/L	МD	0.010	0.0012	05/13/19 20:12	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Project:

190508038

Pace Project No.: 20

20103899

METHOD BLANK: 621545

Associated Lab Samples: 20103899001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	MDL.	Analyzed	Qualifiers
Hexachlorocyclopentadiene	mg/L	ND	0.040	0.010	05/13/19 20:12	
Hexachloroethane	mg/L	ND	D.010	0.0025	05/13/19 20:12	
Indeno(1,2,3-cd)pyrene	mg/L	ND	D.O1@	0.0012	05/13/19 20:12	
Isophorone	mg/L	ND	0.010	0.0025	05/13/19 20:12	
N-Nitroso-di-n-propylamine	mg/L	ND	0.010	0.0025	05/13/19 20:12	
N-Nitrosodimethylamine	mg/L	ND	0.010	0.0025	05/13/19 20:12	
N-Nitrosodiphenylamine	mg/L	ND	0.010	0.0025	05/13/19 20:12	
Naphthalene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
Nitrobenzene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
Pentachlorophenol	mg/L	ИD	0.040	0.0050	05/13/19 20:12	
Phenanthrene	mg/L	ИD	0.010	0.0025	05/13/19 20:12	
Phenol	mg/L	ND	0.010	0.0027	05/13/19 20:12	
Pyrene	mg/L	ND	0.010	0.0025	05/13/19 20:12	
2,4,6-Tribromophenol (S)	% .	53	25-145		05/13/19 20:12	
2-Fluorobiphenyl (S)	%.	55	34-117		05/13/19 20:12	
2-Fluorophenol (S)	%.	43	10-118		05/13/19 20:12	
Nitrobenzene-d5 (S)	%.	76	33-120		05/13/19 20:12	
Phenol-d6 (S)	%.	25	10-120		05/13/19 20:12	
Terphenyl-d14 (S)	%.	71	24-133		05/13/19 20:12	

LABORATORY CONTROL SAMPLE:	621546					
Parameter	Units	Spike Cana	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	mg/L	0.05	0.018	35	44-142 L	.2
1,2-Diphenylhydrazine	mg/L	0.05	0.037	73	36-128	
2,2'-Oxybis(1-chloropropane)	mg/L	0.05	0.033	66	36-166	
2,4,6-Trichlorophenol	mg/L	0.05	0.036	71	37-144	
2,4-Dichlorophenal	mg/L	0.05	0,036	72	39-135	
2,4-Dimethylphenol	mg/L	0.05	0.037	74	32-11 9	
2,4-Dinitrophenol	mg/L	0.05	0.017J	34	0.1-191	
2,4-Dinitrotoluene	mg/L	D.05	0.036	73	39-139	
2,6-Dinitrotoluene	mg/L	0.05	0.036	72	50-158	
2-Chloronaphthalene	mg/L	0.05	0.020	40	60-118 L	2
2-Chlorophenol	mg/L	0.05	0.031	61	. 23-134	
2-Nitraphenal	mg/L	0.05	0.034	68	29-182	
3,3'-Dichlorobenzidine	mg/L	0.05	0.035	70	0.1-262	
4,6-Dinitro-2-methylphenol	mg/L	0.05	0.026	52	0.1-181	
4-Bromophenylphenyl ether	mg/L	0.05	0.032	64	53-127	
4-Chloro-3-methylphenol	mg/L	0.05	0.037	75	22-147	
4-Chlorophenylphenyl ether	mg/L	0.05	0.028	57	25-158	
4-Nitrophenol	mg/L	0.05	0.017J	33	D.1-132	
Acenaphthene	mg/L	0.05	0.025	50	47-145	
Acenaphthylene	mg/L	0.05	0.025	51	33-145	
Anthracene	mg/L	0.05	0.037	73	27-133	

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REPORT OF LABORATORY ANALYSIS

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Project:

190508038

Pace Project No.: 20103899

ABORATORY CONTROL SAMPLE:	621546					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
enzidine	mg/L	0.05	ND	12	10-120	
enzo(a)anthracene	mg/L	0.05	0.036	72	33-143	
enzo(a)pyrene	mg/L	0.05	. 0.036	72	17-163	
enzo(b)fluoranthene	mg/L	0.05	0.035	· 71	24-159	
enzo(g,h,l)perylene	mg/L	0.05	0.034	69	0.1-219	
enzo(k)fluoranthene	mg/L	0.05	0.039	77	11-162	
(2-Chloroethoxy)methane	mg/L	0.05	0.037	74	33-184	
(2-Chloroethyl) ether	mg/L	0.05	0,030	59	12-158	
(2-Ethylhexyl)phthalate	mg/L	0.05	0.040	81	8-158	
tylbenzylphthalate	mg/L	0.05	0.036	73	0.1-152	
rysene	mg/L	0.05	0.036	73	17-168	
n-buty/phthalate	mg/L	0.05	0.039	78	1-118	
n-octylphthalate	mg/L	0.05	0.038	76	4-146	
enz(a,h)anthracene	mg/L	0.05	0.040	81	0.1-227	
thylphthalate	mg/L	0.05	0.036	72	0.1-114	
ethylphthalate	mg/L	0.05	0.036	72	0.1-112	
pranthene	mg/L	0.05	0.038	76	26-137	
orene	mg/L	0.05	0.034	67	59-121	
achloro-1,3-butactiene	mg/L	0.05	0.016	32	24-116	
achlorobenzene	mg/L	0.05	0.034	69	0.1-152	
achlorocyclopentadiene 1	mg/L	0.05	0.01fJ	22	10-115	
achloroethane	mg/L	0.05	0.020	39	40-113 L	2
:no(1,2,3-cd)pyrene	mg/L	0.05	0.039	77	0.1-171	
horone	mg/L	0.05	0.038	76	21-196	
troso-di-n-propylamine	mg/L	0.05	0.035	71	0.1-230	
arosodimethylamine	mg/L	0.05	0.031	51	29-126	
itrosodiphenylamine	mg/L	D.05	0.036	73	10-146	
hthalene	mg/L	0.05	0.021	41	21-133	
obenzene	mg/L	0.05	0.036	73	35-180	
tachtorophenol	mg/L .	0.05	0.024J	49	14-176	
nanthrene	mg/L	0.05	0.036	73	54-120	
nol	mg/L	0.05	0.014	28	5-112	
ene · ·	mg/L	0.05	0.035	70	52-115	
6-Tribromophenol (S)	%.			79	25-145	
luorobiphenyl (S)	% .			64	34-117	
luorophenol (S)	%.			47	10-118	
obenzene-d5 (S)	%.		:	83	33-120	
nol-d6 (S)	%,			29	10-120	
henyl-d14 (S)	%,		•	67	24-133	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project:

190508038

Pace Project No.:

20103899

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and blas for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

BATCH QUALIFIERS

Batch: 142060

[M5]

A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

Date: 05/14/2019 11:42 AM

Analyte recovery in the faboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be blased low.

REPORT OF LABORATORY ANALYSIS

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261.41 6102-20-60 .m.s 56:\T1:\70 e9-05-1019





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

190508038

Pace Project No.: 20103899

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20103899001	190508038-001B	EPA 625	141926	EPA 625	142060

REPORT OF LABORATORY ANALYSIS

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2027556799 6102-20-60 .m.s 20:81:50

Page Analytical

CHAIN-OF-CUSTODY RECORD

WO#: 20103899

TTL, Inc. 3516 Greensboro Avenue Tuscaloosa, Alabama 35401 Phone (205) 345-0816 Fax (205) 343-0635

Subcontractor:

Pace Analytical Services, LLC 1000 Riverbend Blvd-Suite F St. Rose, LA 70087

TEL:

(504) 469-0333

FAX:

Page 1 of 1

Acct #:

08-May-19

Sample ID 190508038-001B

Matrix Aqueous

Collection Date 5/8/2019 8:00:00 AM

Bottle Type 1LAMGU8270 E625

Requested Tests

Comments:

Please analyze by method 625 for the analytes listed in the report.

Notice - Please send invoice with results to: terry.canterbury@pacelabs.com

After analysis, the samples do not need to be returned and can be disposed of per your standard laboratory practices.

Date/Time

Date/Time

Report	T	Analyte	MDL	PQL	MCL	RO
Y		1,2,4-Trichlorobenzene	0	0.01	0	0
- N		1-2-Dichlorobenzene	8	0.01	0	
Y	-	1,2-Diphenylhydrazine	0	0.05	0	0
-N		1.3-Dichlorobenzene	0	0:01	0	0
N		1-4-Dichlorobenzene	- 0	0.01	0	0
N		2.4.5-Trichlarophenol	0		- G	- 0
Y	-	2.4.6-Trichtorophenol	0	0.01	0	0
- '	<u> </u>	2,4-Dichlorophenol	0	0.01	0	0
Y	_	2,4-Dimethylphenol	0	0,01	Ó	ô
Y		2.4-Dinitrophenol	0	0.05	Ó	0
	Â	2.4-Dinitrololuene	0	0.01	0	0
Y		2.4-Dinitrololuene	0	0.01	0	0
Υ			0	0.01	0	0
Y	-	2-Chloronaphthalene	0	0.01	0	
Y		2-Chloraphenol	0	0.01	0	0
Y	_	2-Nitrophenol	0	0.02	Û	0
Y	-	3.3'-Dichlorobenzidine	0	0.02	0	0
Y		4.6-Dinitro-2-methylphenol	0	0.05	0	0
Υ		4-Bromoprienyl phenyl ether	0	0.01	0	0
Y	-	4-Chlora-3-methylphoneil			0	0
Υ		4-Chloropnenyl phenyl ether	0	0.01		0
Y	A	4-Nitrophenol	0	0.05	0	
Å	٠	Acenaphthene	0	0.01	0	0
Υ		Acenaphthylene	0	0.01	0	0
۲	A	Anthracene	0	-	0	
Y	A	Benz(a)anthracene	0	0.01	0	0
Υ	Α	Benzidine	0	0.05	0	1
Y	A	Benzo(a)pyrene	0	0.01	0	
Y	A	Benzo(b)/luoranthene	0	0.01	0	
Y	A	Benzo(g,h,i)perylene	0	0.01	0	
Y	A	Benzo(k)fkioranthene	0	0.01	0	0
Y	Α	Bis(2-chloroethoxy)methane	0	0.01	0	0
Y	A	Bis(2-chloroethyl)ether	0	0.01	0	0
Y	A	Bis(2-chloroisopropyl)ether	0	0.01	0	0
Y	A	Bis(2-ethylhexyl)phthalate	0	0.01	0	0
Y	A	Butyl benzyl phthalate	D	0.01	0	0
Y	A	Chrysene	0	0.01	0	0
Y	A	Dibenz(a.h)anthracene	0	0.01	9	0
Ÿ	A	Diethyl pnthalate	0	0.01		
'	A	Dimethyl µhthalale	t	0.01	0	
Y	A	Di-n-butyl phthalate	0	0.01	0	
Y	A	Di-n-octyl phthalate	o o			
- 'Y	A	Fluoranthene	- 0	0.01	S	
- <u>'</u>	A	Fluorene	0			
Y	A	Hexachlorobenzene	0		· · · · · · · · · · · · · · · · · · ·	o
Y	A	Hexachlorobutadiene	0			
'	A	Hexachlorocycloperhatizane	0			1 1
	A	Hexachloroethane	0			
Y Y	A	Indeno(1.2,3-cd)pyrene	0			
Y	A	Isophorone	0			
N	A		0			
		m.p-cresol	0			
- N		m-cresol				
Υ	A	Naphthalene	0			0
Y	A	Nitrobenzene	0			
Υ	A	N-Nitresodimethylamine	0			0
Υ	A	N-Nitrosodi-n-propylamine	0			
Υ	A	N-Nitrosodiphenylamine	0	0.01	0	0

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at to at age9

S Phenol-46 10.0 S Phenol-d5 10.0 X S Nitrobenzene-d5 Y 10.0 P1b-lynahmaT-h 2 Y 10.0 2-Fluorophenol 10.0 2-Chlorophenyl 2-Fluorobiphenyl 10.0 10.0 0 lonardomordii T-8,4,5 10.0 0 S 1,2-Dichlorobenzene-d4 10.0 Y 0 0 10.0 **Ругеле** γ lons44 A Y 0 10.0 A Phenauthrene 10.0 0 A Pentachlorophenol γ 920.0 TOSBIS-D A

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Report T

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<i>-</i> ∕ %	mnle Condit	ion Upon BlalO	#:20103899	
Pace Analytical	unpic condi	PM: K	HB Due Date: 05	/23/19
1000 Fivesbend, Blvd., St. SL Rosso, LA 70067	its F	Projectien		
Courier: Pace Courier Hired Courier	Defeat C	UPS 🗆 DHL	☐ USPS ☐ Customer	☐ Other
	coci		Custody Seals Intact:	1
			/	
Therometer o Therm Fisher IR 5 o Therm Fisher IR 6 o Therm Fisher IR 7	Type of loss:	Wet Blue None	Samples on ice: [see	
Cooler Temperature: [see COC] Tem	np stiould be abou	re freezing to 6°C	Date and Initials of person excontents:	The state of the s
Temp must be measured from Temperature blank when	present	Comments:		1
Temperature Blank Present*?	□Yes □No J2	Va 1		2
Chain of Custody Present:	DYES ONO O	NIA 2		ì
Chain of Custody Complete:	DX65 DNo D	√ IA 3	•	
Chain of Custody Relinquished:	DYES DNO D	WA 4		
Sampler Name & Signature on COC:	.□Yes ÆNo □	VA 5	· · · · · · · · · · · · · · · · · · ·	
Samples Arrived within Hold Time:	Difes ONo O	WA 6	<u> </u>	1
Sufficient Volume:	Dres Ono Or	VA 7		
Correct Containers Used:	PYes DNo DI	UA 8		į.
Filtered vol. Rec. for Diss. tests	□Yes □No Æ	ÝA 9		<u> </u>
Sample Labels match COC:	DYES DNO DN	VA 10	•	
All containers received within manafacture's precautionary and/or expiration dates.	Dies UNo UN	UA 11		
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	OYes Ono ,201			
All containers preservation checked found to be in compliance with EPA recommendation.	□Yes □No □X		reserative added? oYes DNo ord lot no.: HNO3 H2	SO4
Headspace in VOA Vials (>6mm):	Clyes ClNb ClN	/A 14		
Trip Blank Present	□Ves JZNo	15		
Client Notification/ Resolution: Person Contacted:			Date/Time:	
Comments/ Resolution:	•		Date/Inne.	<u> </u>
		******* *** **************************	······································	
	·····			
				
	· · · · · · · · · · · · · · · · · · ·		<u> </u>	•
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•			MANN	- D40 4.5
		ALI	LC003rev.08, 15Feb2013 SCUR F	comagential of 15
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May 13, 2019

Terry Canterbury Pace-TTL 3516 Greensboro Avenue Tuscaloosa, AL 35401

RE: Project: 190508038 / 624

Pace Project No.: 20103903

Dear Terry Canterbury:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

KauNPaour

Karen Brown karen.brown@pacelabs.com (504)469-0333 Project Manager

Enclosures

cc: Brandon Pierce, Pace-TTL



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project:

190508038 / 624

Pace Project No.: 20103903

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch: 11277CA

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721 Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Pennsylviania Dept. of Env Protection (NELAC); 68-04202

Texas Commission on Env. Quality (NELAC): T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-

00119

Commonwealth of Virginia (TNI): 480246

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51 /32 6107-50-60 .m.6 32:12:70 5027556799





SAMPLE SUMMARY

Project:

190508038 / 624

Pace Project No.: 20103903

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20103903001	190508038-002C	Water	05/08/19 08:10	05/09/19 09:00
20103903002	190508038-007A	Water	05/08/19 00:00	05/09/19 09:00

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2057556799 22 /32 6102-50-60 .m.s 34:15:70





SAMPLE ANALYTE COUNT

Project

190508038 / 624

Pace Project No.:

20103903

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20103903001	190508038-002C	EPA 624	GEM	35
20103903002	190508038-007A	EPA 624	GEM	35

REPORT OF LABORATORY ANALYSIS

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23 /32 6102-50-60 .m.a £0:52:70



ANALYTICAL RESULTS

Project:

190508038 / 624

Pace Project No.: 20103903

Sample: 190508038-002C	Lab ID:	20103903001	Collecte	d: 05/08/19	9 08:10	Received: 0	5/09/19 09:00 N	latrix: Water	
			Report	-	•				
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
24 Volatile Organics	Analytica	l Method: EPA 6	24				,		
Acrolein	ND	mg/L	0.020	0.0020	1		05/10/19 13:28	107-02-8	
Acrylonitrile	ND	mg/L	0.020	0.0021	1		05/10/19 13;28	107-13-1	
Benzene	ND	mg/L	0.0050	0.0014	1		05/10/19 13:28	71-43-2	
Bromodichloromethane	ND	mg/L	0,0050	0.0015	1		05/10/19 13;28	75-27-4	
Bromoform	ND	mg/L	0.0050	0.0016	1		05/10/19 13:28	75-25-2	
Iromomethane	ND	mg/L	0.0050	0.0014	-1		05/10/19 13:28	74-83-9	
Carbon tetrachloride	ND	mg/L	0.0050	0.0011	1		05/10/19 13:28	56-23-5	
hlorobenzene	ND	mg/L	0.0050	0.0015	1		05/10/19 13:28	108-90-7	
hioroethane	ND	mg/L	0.0050	0.0012	1		05/10/19 13:28	75-00-3	
-Chloroethylvinyl ether	ND	mg/L	0.020	0.0032	- 1		05/10/19 13:28	110-75-8	M1,c3
hloroform	0.0024J	mg/L	0.0050	0.0014	1		05/10/19 13:28		,
hioromethane	ND ND	·mg/L	0.0050	0.0012	1		05/10/19 13:28		
)ibromochloromethane	ND	mg/L	0.0050	0.0016	1		05/10/19 13:28		
,2-Dichlombenzene	, ND	mg/L	0.0050	0.0015	1		05/10/19 13:28		
,3-Dichlorobenzene	ND	mg/L	0.0050	0.0015	1	•	05/10/19 13:28		
.4-Dichlorobenzene	ND	mg/L	0.0050	0.0013	1		05/10/19 13:28		
,4-Dichloroethane	ND	mg/L	0.0050	0.0015	1		05/10/19 13:28		
, 1-Dichloroethane	ND	. —	0.0050	0.0015	1		05/10/19 13:28		
		mg/L	0.0050	0.0013	1 .		05/10/19 13:28		
1-Dichloroethene	ND .	mg/L	0.0050	0.0014	1		05/10/19 13:28		
ans-1,2-Dichloroethene	ND	mg/L			, ¦ .		•		
2-Dichloropropane	ND	mg/L	0.0050	0.0015			05/10/19 13:28		
s-1,3-Dichloropropene	ND	mg/L	0.0050	0.0015	1		05/10/19 13:28		
ans-1,3-Dichloropropene	ND	mg/L	0.0050	0,0016	. 1		05/10/19 13:28		
thylbenzene	NĎ	mg/L	0.0050	0.0014	1 .		05/10/19 13:28		
ethylene Chloride	ND	mg/L	0.0050	0.0046	1		05/10/19 13:28		
1,2,2-Tetrachloroethane	ND	mg/L	0.0050	0.0019	1		05/10/19 13:28		
etrachloroethene	ŃD	mg/L	0.0050	0.0014	1		05/10/19 13:28		
aluene	· · ND	mg/L	0.0050		∵1		05/10/19 13:28		
1,1-Trichloroethane	ND	mg/L	0.0050	0.0012	1		05/10/19 13:28		
1,2-Trichloroethane	, ND	mg/L	0.0050	0.0015	1		05/10/19 13:2B		
ichloroethene	ND	mg/L	0.0050	0.0014	t		05/10/19 13:2B		
inyl chloride	ND	mg/L	0.0050	0.0011	1		05/10/19 13:28	75-01-4	
urrogates		nr'	00.440					455.55	
Bromofluorobenzene (S)	. 98	%.	82-118		1 .		05/10/19 13:28		
duene-d8 (S)	106	%.	B1-120		1.		05/10/19 13:28		
bromofiuoromethane (S)	101	%.	77-123	, .	.1	,	05/10/19 13:28	1868-53-7	
		***************************************	0.5	neterie-		D			
ample: 190508038-007A	Lab ID:	20103903002		: 05/08/19	UU:00	Received: 05	/U9/19 09:00 Ma	ıtrix: Water	
Parameters	P Results	Units	Report Limit	MDL	DF	Oronand	Anglessa	CACH	0
raianiers (Results	Units -	Littel	TAILUE	- Jr	Prepared	Analyzed	CAS No.	Qual
24 Volatile Organics	Analytical !	Method: EPA 62	4	* * *					
rolein	ND	mg/L	0.020	0.0020	1		05/10/19 14:22	107-02-8	
zylonitrila	ND	mg/L	0.020	0.0021	1.		05/10/19 14:22	107-13-1	

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ANALYTICAL RESULTS

Project:

190508038 / 624

Pace Project No.: 20103903

Sample: 190508038-007A	Lab ID:	20103903002	Collected	05/08/19	00:00	Received; 05	6/09/19 09:00	Matrix: Water	•
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
624 Volatile Organics	Analytica	Method: EPA 6	24			·.			
Benzene	ND	mg/L.	0.0050	0.0014	1		05/10/19 14:2	2 71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	0.0015	1		05/10/19 14:2	2 75-27-4	
Bromoform	ND	mg/L	0.0050	0.0016	1	·	05/10/19 14:2	2 75-25-2	
Bromomethane	ND	mg/L	0.0050	0.0014	1		05/10/19 14:2	2 74-83-9	
Carbon tetrachloride	ND	mg/L	0.0050	0.0011	1	•	05/10/19 14:2	2 56-23-5	
Chlorobenzene	ΝD	mg/L	0.0050	0.0015	1		05/10/19 14:2	2 108-90-7	
Chloroethane	ND	mg/L .	0.0050	0.0012	1		05/10/19 14:2	2 75-00-3	
2-Chloroethylvinyl ether	ND	mg/L	0.020	0.0032	1		05/10/19 14:2	2 110-75-8	c3
Chloroform	ND	mg/L	0.0050	0.0014	1		05/10/19 14:2	2 67-66-3	
Chloromethane	ND	mg/L	0.0050	0.0012	1		05/10/19 14:2	2 74-87-3	
Dibromochloromethane	ND	mg/L	0.0050	0.0016	1		05/10/19 14:2	2 124-48-1	
1.2-Dichlorobenzene	ND	mg/L	0.0050	0.0015	1		05/10/19 14:2	2 95-50-1	
1.3-Dichlorobenzene	ND	mg/L	0.0050	0.0015	f		05/10/19 14:2		
1.4-Dichlorobenzene	ND	mg/L	0.0050	0.0014	1		05/10/19 14:2	2 106-46-7	
1.1-Dichleroethane	ND	mg/L	0.0050	0.0015	1		05/10/19 14:2	2 75-34-3	
1.2-Dichloroethane	. ND	mg/L	0.0050	0.0015	1		05/10/19 14:2		
1.1-Dichloroethene	ND	mg/L	0.0050	0.0014	1		05/10/19 14:2		
trans-1,2-Dichloroethene	ND	rtg/L	0.0050	0.0013	1		05/10/19 14:2		
1.2-Dichloropropane	ND	mg/L	0.0050	0.0015	1		.05/10/19 14:2		
cis-1,3-Dichloropropene	ND	mg/L	0.0050	0.0015	1		05/10/19 14:2		
trans-1,3-Dichloropropene	ND	mg/L	0.0050	0.0016	1			2 10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	0.0014	1		05/10/19 14:2		
Vethylene Chloride	ND	mg/L	0.0050	0.0046	1		05/10/19 14:2		
I.1.2.2-Teirachloroethane	- ND	mg/L	0.0050	0.0019	i	•	05/10/19 14:2		
Tetrachlomethene	ND	mg/L	0.0050	0.0014	1		05/10/19 14:2		
Toluene	ND	mg/L	0.0050	0.0021	1		05/10/19 14:2		
I.1.1-Trichloroethane	ND	mg/L	0.0050	0.0012	1		05/10/19 14:2:		
1.1.2-Trichloroethane	ND	mg/L	0.0050	0.0015	1		05/10/19 14:2		
Frichloroethene	ND	mg/L	0.0050	0.0313	1		05/10/19 14:22		
/invl chloride	· ND	mg/L	0.0050	0.0011	i		05/10/19 14:2	•	
Surrogates	NU	uidir	0.0030	0.0011	'		03/10/13 14.2	19-0(-4	
I-Bramofluorobenzene (S)	102	%.	82-118		1		05/10/19 14:22	460-00-4	
foluene-d8 (S)	104	%.	81-120		1		D5/10/19 14:22		
Dibromofluoromethane (S)	103	. %.	77-123		1	•	05/10/19 14:22		

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Project

190508038 / 624

Pace Project No.:

20103903

QC Batch:

141873

Analysis Method:

EPA 624

QC Batch Method:

EPA 624

Analysis Description:

Matrix: Water

624 MSV

Associated Lab Samples: 20103903001, 20103903002

METHOD BLANK: 521050

Associated Lab Samples: 20103903001, 20103903002

Parameter	Units	Blank Result	Reporting Limit	MDL .	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0050	0.0012	05/10/19 10:52	
1,1,2,2-Tetrachioroethane	mg/L	ND	0.0050	0.0019	05/10/19 10:52	or .
1,1,2-Trichloroethane	mg/L	МĐ	0.0050	0.0015	05/10/19 10:52	
1,1-Dichlomethane	mg/L	ND	0.0050	0.0015	05/10/19 10:52	
1,1-Dichlaraethene	mg/L	ND	0,0050	. 0,0014	05/10/19 10:52	
1,2-Dichiorobenzene	mg/L	ND	0.0050	0.0015	05/10/19 10:52	
1,2-Dichloroethane	mg/L	ND	0.0050	0.0015	05/10/19 10:52	
1,2-Dichloropropane	mg/L	ND	0.0050	0.0015	05/10/19 10:52	
1,3-Dichlorobenzene	mg/L	· ND	0.0050	0.0015	05/10/19 10:52	,
1,4-Dichlorobenzene	mg/L	ND	0.0050	8.0014	05/10/19 10:52	
2-Chloroethylvinyl ether	mg/L	ND	0.020	0.0032	05/10/19 10:52	
Acrolein	mg/L	ND	0.020	0.0020	05/10/19 10:52	
Acrylonitrile	mg/L	ND	0.020	0.0021	05/10/19 10:52	
Benzene	mg/L	ND	0.0050	0.0014	05/10/19 10:52	•
Bromodichloromethane	mg/L	ND	0.0050	0.0015	05/10/19 10:52	
Bromoform	mg/L	· ND	0.0050	0.0016	05/10/19 10:52	
Bromomethane	mg/L	ND	0.0050	0.0014	05/10/19 10:52	
Carbon tetrachloride	mg/L	ND	0.0050	0.0011	05/10/19 10:52	
Chlorobenzene	mg/L	· ND	0.0050	0.0015	05/10/19 10:52	
Chlorgethane	mg/L	ND	0.0050	0.0012	05/10/19 10:52	
Chloroform	mg/L	ND	0.0050	0.0014	05/10/19 10:52	
Chloromethane	mg/L	ND	0.0050	0.0012	05/10/19 10:52	
ds-1,3-Dichloropropene	mg/L	ND	0.0050	0.0015	05/10/19 10:52	
Dibromochloromethane	mg/L	ND	0.0050	0.0016	05/10/19 10:52	
Ethylbenzene	mg/L	ND	0.0050	0,0014	05/10/19 10:52	
Methylene Chloride	mg/L	ND	0.0050	0.0046	05/10/19 10:52	
Tetrachloroethene	mg/L	ND	0.0050	0.0014	05/10/19 10:52	
Toluene	mg/L	ND	0.0050	0.0021	05/10/19 10:52	
rans-1,2-Dichloroethene	mg/L	ND	0.0050	0.0013	05/10/19 10:52	
rans-1,3-Dichloropropene	mg/L	ND	0.0050	0.0016	05/10/19 10:52	
richloroethene	'. mg/L	ND	0.0050	0.0014	05/10/19 10:52	
/inyl chloride	mg/L	ND	0.0050	0.0011	05/10/19 10:52	
-Bromofluorobenzene (S)	%. ,	100	82-118		05/10/19 10:52	
Dibromofluoromethane (S)	%.	101	77-123		05/10/19 10:52	
Toluene-d8 (S)	%.	109	81-120		05/10/19 10:52	

ABORATORY CONTROL SAMPLE:	621051						
•		Spike	LCS	LCS	% Rec		
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
.1,1-Trichloroethane	mg/L:	0.02	. 0.019	97	76-123		

ulls presented on this pago are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result

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Project:

190508038 / 624

Pace Project No.:

20103903

LABORATORY CONTROL SAMPLE:	621051			•			
•		Spike	LCS	LCS	% Rec	•	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
1,1,2,2-Tetrachloroethane	mg/L	0.02	0,018	. 92	64-131		1
1,1,2-Trichloroethane	mg/L °	0.02	D.018	89	76-118		
1,1-Dichloroethane	· mg/L	0.02	0.019	95	69-125		
1.1-Dichloroethene	mg/L	0.02	0.018	90	63-122		
1.2-Dichlombenzene	mg/L	0.02	0.018	. 89	80-113		
1,2-Dichloroethane	mg/L	0.02	0.018	. 88	64-127		
1,2-Dichloropropane	mg/L	0.02	0.018	. 90	68-125		
1,3-Dichlorobenzene	mg/L	0.02	0.018	88	7 9 -112		
1,4-Dichlorobenzene	mg/L	0.02	0.017	87	. 79-113		
2-Chloroethylvinyl ether	mg/L	0.04	0.033	83	52-138		
Acrolein	mg/L	0.02	0.017J	84	10-164		
Acrylonitrile	mg/L	0.02	0.018J	92	48-145		
Benzene	mg/L	0.02	0.017	. ВЗ	72-131		
Bromodichloromethane	mg/L	0.02	0.019	94	72-117		
Bromoform	mg/L	0.02	0.020	101	58-124		
Bromomethane	mg/L	0.02	0.018	. 90	39-163		
Carbon tetrachloride	mg/L	0.02	0.020	101	73-121		
Chlorobenzene	mg/L	0.02	0.019	93	77-119		
Chloroethane	mg/L	0,02	0.019	93	36-155		
Chloroform	mg/L	0.02	0.018	89	69-115		
Chloromethane	mg/L	0.02	0.016	80	30-148		
cis-1,3-Dichloropropene	mg/L	0.02	0.018	91	70-120	• *	
Dibromochloromethane	mg/L	0.02	0.018	92	63-120		
Ethylbenzene	mg/L	0.02	0.019	93	81-110		
Methylene Chloride	mg/L	0.02	0.019	96	58-135		
Tetrachloroethene	mg/L	0.02	0.020	102	68-126		
Toluene	mg/L	0.02	0.018	92	80-116		
rans-1,2-Dichloroethene	mg/L	0.02	0.019	97	60-126		
rans-1,3-Dichloropropene	mg/L	0.02	0.018	. 91	71-120		
Frichloroethene	mg/L	0.02	0.019	95	76-113		
/inyl chloride	mg/L	0.02	0.017	85	45-126		
I-Bromofluorobenzene (S)	%.	,		98	82-118		
Dibromofluoromethane (S)	%.			99	77-123		
Toluene-d8 (S)	%.		:	96	81-120		
			1	:			
MATRIX SPIKE & MATRIX SPIKE DUP	LICATE: 62105	2	621053	3			
		MS MS		,			
•	20103903001	Spike Spi		MSD I	MS MSD	% Rec	Max
Parameter Units		Conc. Co			Rec %Rec		PD RPD Q

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

0.02

0.02

0,02

0.02

0.02

0.02

0.022

0.023

0.022

0.022

0.021

0.021

0.021

0.020

0.021

0.022

0.020

0.021

112

117

108

108

104

105

107

100

107

110

98

103

76-141

60-144

72-132

67-139

62-139

77-129

4 20

15 20

2 20

6 20

1 20

20

REPORT OF LABORATORY ANALYSIS

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.1,1-Trichloroethane

,1,2-Trichloroethane

,1-Dichloroethane

,1-Dichloroethene

.2-Dichlorobenzene

,1,2,2-Tetrachloroethane

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mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

ND

ND

ND

ND

ND

ND

0.02

0.02

0.02

0.02

0.02

0.02



Project

190508038 / 624

Pace Project No.: 20103903

MATRIX SPIKE & MATRIX S	PIKE DUP	LICATE: 6210 20103903001	52 MS Spike	MSD Spike	621053 MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
1,2-Dichloroethane	mg/L	ND	0.02	0.02	0.023	0.021	115	105	63-139	10	20	
1.2-Dichloropropane	mg/L	ND	0.02	0.02	0.021	0.020	106	100	68-137	5	20	
1,3-Dichlorobenzene	mg/L	ИD	0.02	0.02	0.021	0.021	106	104	76-128	2	20	
1,4-Dichlorobenzene	mg/L	ND	0.02	0.02	0.021	0.020	106	100	76-128	6	20	
?-Chloroethylvinyl ether	mg/L	ND	0.04	0.04	ND	ND	0	0	10-65		20	M1
Acrolein	mg/L	ND	0.02	0.02	0.019J	0.018J	93	91	10-200		20	
Acrylonitrile	mg/L	ND	0.02	0,02	0.020	0.022	102	110	31-177	8	20	
Benzene	mg/L	ND	0.02	0.02	0.020	0.019	102	97	52-167	5	20	
3romodichloromethane	mg/L	ND	0.02	0.02	0.023	0.022	114	106	70-131	7	20	
Bromoform	mg/L	ND	0.02	0.02	0.023	0.023	113	115	58-134	2	20	
Bromomethane	mg/L	ND	0.02	0.02	0.021	0.021	104	104	36-177	0	20	
Carbon tetrachloride	mg/L	ND	0.02	0.02	0.024	0.023	119	117	67-143	2	20	
Chlorobenzene	mg/L	ND	0.02	0.02	0.022	0.022	108	108	73-135	0	20	
Chloroethane	mg/L	ND	0.02	0.02	0.022	0.021	110	103	35-172	7	20	
Chloroform	mg/L	0.0024J	0.02	0.02	0.023	0.023	103	103	65-131	0	20	
Chloromethane	mg/L	ND	0.02	0.02	0.018	0.018	91	88	27-168	4	20	
is-1,3-Dichloropropene	mg/L	ND	0.02	0.02	0.021	0.023	107	116	67-139	8	20	
Dibromochloromethane	mg/L	ND	0.02	0.02	0.022	0.022	108	111	60-134	3	20	
thylbenzene	mg/L	ND	0.02	0.02	0.022	0.021	111	107	75-130	4	20	
lethylene Chloride	mg/L	ND	0.02	0.02	0.022	0.021	109	107	60-138	2	20	
etrachloroethene	mg/L	ND	0.02	0.02	0.024	0.024	122	118	65-146	3	20	
oluene	mg/L	ND	0.02	0.02	0.023	0.024	109	114	32-181	4	20	
ans-1,2-Dichloroethene	mg/L	ND	0.02	0.02	0.023	0.021	113	106	64-139	6	20	
ans-1,3-Dichloropropene	mg/L	DN	0.02	0.02	0.021	0.022	104	109	69-133	5	20	
richloroethene	mg/L	ND	0.02	0.02	0.022	0.020	111	99	73-132	11	20	
inyl chloride	mg/L	ND	0.02	0.02	0.020	0.019	98	93	47-145	5	20	
Bromofluorobenzene (S)	%.						102	100	82-118			
ibromofluoromethane (S)	%.						99	104	77-123			
oluene-d8 (S)	%.						99	107	81-120			

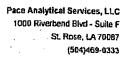
Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project:

190508038 / 624

Pace Project No.:

20103903

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit,

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

с3

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Analysis of 2-chloroethyl vinyl ether was performed from a sample that was field preserved to pH < 2 with HCl. Acid preservation is not allowed for this parameter by the test method or for NPDES compliance per 40CFR Part 136.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

190508038 / 624

Pace Project No.: 20103903

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20103903001 20103903002	190508038-002C 190508038-007A	EPA 624 EPA 624	141873 141873		

REPORT OF LABORATORY ANALYSIS

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te: 05/13/2019 11:50 AM

Pace Analytical

CHAIN-OF-CUSTODY RECORD

WO#:20103903

3516 Greensboro Avenue 🕜 Tuscaloosa, Alabama 35401 Phone (205) 345-0816 Fax (205) 343-0635

TTI_Inc.

Subcontractor:

Pace Analytical Services, LLC 1000 Riverbend Bivd-Suite F St. Rose, LA 70087

TEL: FAX:

(504) 459-0333

Page 1 of 1

Acct #:

08-May-19

						Requested Te	ste		
Sample ID Matrix	Collection Date	Bottle Type	E624		·				
190508038-002C Aqueous	5/8/2019 8:10:00 AM	AQ8260	1		1			1	···
190508038-007A Aqueous	5/8/2019	AQ8260	. 1	-		 	· · · · · · · · · · · · · · · · · · ·		

Comments:

Please analyze by method 624 for the analytes listed in the report.

Notice - Please send invoice with results to: terry canterbury@pacelabs.com

After analysis, the samples do not need to be returned and can be disposed of per your standard laboratory practices.

	Date/Time	Date/Time
Relinquished by: 5	8-1-1 3.30 Received by:	<u> </u>
Relinquished by:	SQ 19 DQ UU Received by:	1/2 5/9/19 09/03

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Date: 08-May-19

CLIENT:

City of Clanton - WWTP

Lab Order:

180905048

Project

NPDES AL0054631 - EPA Form 2A - Sampling #1

Lab ID: Client Sample ID: Effluent - Grab

180905048-002

Collection Date: 09/05/2018 8:00

Matrix: Aqueous

Citent Sample ID: Cilident - Glad				matrix: Aqu	ieuus
Analyses	Result	Limit	Units	DF	Date Analyzed
VOLATILES BY GC/MS METHOD 624		E624	Prep:		Analyst: LAA
1,1,3-Trichloroelhane	< 0.005	0.005	mg/L ⋅	1	09/07/2018 20:14
1,1,2,2-Tetrachloroethane	< 0.005	0.005	mg/L	1	09/07/2018 20:14
1,1,2-Trichloroethane	< 0.005	0.005	mg/L	1	09/07/2018 20:14
1,1-Dichlorcethane	< 0.005	0.005	mg/L	1	09/07/2018 20:14
1,1-Dichloroethene	< 0.005	. 0.005	mg/L	1	09/07/2018 20:14
1,2-Dichlorobenzene	< 0.005	0.005	mg/L	1	09/07/2018 20:14
1,2-Dichloroelhane	< 0.005	0.005	mg/L	1	09/07/2018 20:14
1,2-Dichloropropane	< 0.005	0.005	mg/L	1	09/07/2018 20:14
1,3-Dichlorobenzene	< 0.005	0.005	mg/L	1	09/07/2018 20:14
1,4-Dichlorobenzene	< 0.005	0.005	mg/L	1	09/07/2018 20:14
2-Chloroethyl vinyl ether	< 0.010	0.010	mg/L	1	09/07/2018 20:14
Acrolein ·	< 0.100	0.100	mg/L	1	09/07/2018 20:14
Acrylonitrile	< 0.10D	0.100	mg/L	1	09/07/2018 20:14
Benzene	< 0.605	0.005	mg/L	1	09/07/2018 20:14
Bremodichloromethane	< 0.005	0.005	mg/L	1	09/07/2018 20:14
Bromoform	< 0.005	0.005	mg/L	1	09/07/2018 20:14
Bromomethane	< 0.010	0.010	mg/L	1 .	09/07/2018 20:14
Carbon tetrachloride	< 0.005	0.005	mg/L	· 1	09/07/2018 20:14
Chlorobenzene	< 0.005	0.005	mg/L	1	09/07/2018 20:14
Chloroethane	< 0.010	0.010	mg/L	1	09/07/2018 20:14
Chloroform	< 0.005	0.005	mg/L	1	09/07/2018 20:14
Chloromethane	< 0.005	0.005	mg/L	, 1	09/07/2018 20:14
cls-1,3-Dichloropropene	< 0.005	0.005	mg/L	1 .	09/07/2018 20:14
Dibromochloromethane	< 0,005	0.005	mg/L	-1	09/07/2018 20:14
Ethylbenzene	< 0.005	0.005	ang/L .	· 1	09/07/2018 20:14
Methylene chloride	< 0.005	0.005	mg/L	1	09/07/2018 20:14
Tetrachloroethene	< 0.005	0.005	mg/L	1	09/07/2018 20:14
Toluene	< 0.005	0.005	mg/Ĺ	1	09/07/2018 20:14
trans-1,2-Dichloroethene	< 0.005	0.005	mg/L	1 .	09/07/2018 20:14
trans-1,3-Dichloropropene	< 0.005	0.005	mg/L	1	09/07/2018 20:14
Trichloroethene	< 0.005	0.005	mg/L .	1	09/07/2018 20:14
Viny! chloride	< 0.002	0.002	mg/L	, 1°	09/07/2018 20:14

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:notivioseA \zinemmc Date/Time; anson Contacted: lient Noufication/ Resolution: rip Blank Present OND SBY eadspace in VOA Vials (>6mm); Ar Aw□ ow□ esy□ ompliance with EPA recommendation. fi added record lot no.: HNO3 AND any D Il containers preservation checked found to be in If No, was presentive added? Des DNo een chacked (except VOA, coliform, & O&G). AND OND BOYD ul containers needing chemical preservation have recautionary and/or expiration dates. AWD WD 29/10 e'erlubatenem nithiw bevissen arsnistmos II/ Sample Labels match COC: OL AVID OND SOND Fillered vol. Rec. for Diss. tests AWA oN□ asY□ Contect Containers Used: 애디 뭐든 AM Sufficient Volume: OND SOYING AIN[] Samples Arrived within Hold Time: AND ONL SYN Sampler Name & Signature on COC: AW 에고 왕시 Chain of Custody Relinquished: AIN 에디 의실 Chain of Custody Complete: VIN[] 애니 **카/** Chain of Custody Present A\N[] Temperature Blank Present? Commenter Temp must be measured from Temperature blank when present Brimmana normagio eletinich ins also Temp should be above freezing to 6°C. Cooler Temperature: [see COC] 7 Al nacial modified :bssU Samples on ice: [see COC] Blue Type of ke: 8 Al nertain mar(T o Therometer 2 Al hertal4 most Co [See COC Custody Seal on CoolenBox Present ☐ Pace Courier ☐ Hired Courier ☐ Fed X Courier: Ted)O [] SASU 🗆 THO C Squ 🗆 Customer SE Rose, LA 7008 J.S. Proprient: 20-TTL 1900 Riverband Blod, Subs 1 leallytical a Due Date: 05/23/19 Sample Condition Upon HOH: 20103903

ALLCOO3724.08, 15Feb2013 SCUPP Form Paged14 of 14

2057556799

H Velly 5/8/19 9:24 Harkon Clary 5/8/19 14:40	1 ffedor Charles 5/3/19 9:24	Air Bill #: Method of Shipment: Received By Lab:
TTL. Inc Tiscalones Office/lehorstory	4	Date/Time S - 8 - 205 345-0995
	o read terms and conditions between TTL, Inc. and client on back of fo	

_		30pu	one ounipio in			ormpia oceanity men	dan cuicitta
Cilent:	City of Clenton - WWFP PACE WORK ORDER NUMBER	Sample <i>EFFLU</i>	LENT P	comit 1	1. Condition of	Contents:	
Contact:	Mr Anthony Robinson 190508 038	210 <i>P</i>	0. 	1	2. Sealed for Si	nipping By:	
Mailing Address:	ARTA Charles Charles BA	End 5/8//9	DATE/TIME PLOCE A	<u>lm</u>	3. Initial Conten	ts Temp.:°C Seal	Applied Yes No
City, State, Zip:	Clanton, AL 35046		DAILTIME		4. Custody Sea	I Intact Üpon Receipt by Labor	ratory: Yes No
Phone No.:	205 755-2360	Sample EFFL	KENT E	ermit news	5. Condition of	Contents: Good log	
Sampled By:	CALENT	Start 5/7/	19 8:00		6. Comments: _		Tuscaroga
roject ID:	Clanton-VAMTP-2A-2018	-10/10	A STREET, SE		7. Reporting St	_	; Rush By*
roject Name:	NPDES AL0054631 - EPA Form 24 - Sampling		DATE/TIME	,,	8. Client P.O. #	-	BURCHARGES MAY APPLY
Date Time	Sample ID/Description	Sample Type	Sample Method	Sample	a Containers	Analysis	Parameters
18/19 8:00,	Emuent - Composite	Aqueous	COMP34	1 1/2 P	T PL HNOS	200.7PR , 200.8_W, 200.8PR	.HARD_W
	Emuent - Composite	Aqueous	COMP24	A ILAM	IGU6270	625_V4W, 625PA	
1 4 1	↑ Effluent · Composite	Aqueous	COMP24	្រ លាខ	LNP .	TDS_DW	
	Effluent - Grab	Aqueoue	GRAB	4 AQ52	6 0	524_2A	
	Effluent - Grab	Aqueous	GRAB	ा वाह	L NAOH	CM-DW	
8/19 8:10 A	☐ Effluent · Grap	Aquequs	GRAB	1. 15VVI	40G H2904	Q&G 1554	
8/13 8: DA	Effluent - Grab	Aqueous	GRA5	1 ILAM	IGH2SO4	PHENOLS TRV	
	HG-LL - Effluent	₩direens	GRAB	1 HB_L	L_500m: 0 6 77	ma_LL	
8/13 8:150	1 Hig-LL - Spike	Aqueous	GRAE	1 HG_L	L_500m) C G TT	HG_LL	
18/19 8:2011	HG-LL - Spike/Dupiloste	Aqueous	GRAB	1 mG_L	L_500m 0 G T!	MG_LL	
18/19 8200	HG-LL - Fleid Brank	201900 #	GRAB	1 หล_เ	.L_500ra) ⊈G ₹7	HG_LL	
18/19 8:25.	🛌 Telp (Black	Aqueous	GRAB	4 4982	50	524_2ASLAWN	
			٠.		7		

Composite Sample Info

Sample Security Requirements

LIMS Chain of Custody Form

EPA Method 1669

Manual collection directly into sample bottle

Client ify of Claston Date/Time 5/8/19 8:15 an	Sampl	Sample Site/ID Out Rall 0011 Weather cond. Suny					
Date/Time 5/8/19 8:15am	Weath	Weather cond. duny					
Clean Hands (CH): Anthy Xelly							
Dirty Hands (DH): Thomas Barrell							
CH & DH have a wind suit on?	(YES	NO	(ULINE #S-17924 XL 2XL)				
CH has shoulder length gloves on?	YES	NO	(ULINE #S-20329)				
CH & DH have latex, powder free gloves on?	YES	NO	(ULINE #S-6606)				
Sample Kit/Bottles less than 90 days old?	YES	NO	(Southern Analytical)				
Date kit received from Southern Analytical Labs							
TTT. I IMS Work order number added at Log Res	riew A	190	5718038				