



Alabama Department of Environmental Management
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SEP 30 2016

Mr. Dan Worthy, Chairman
Waterworks and Sewer Board of the City of Ashland
Post Office Box 365
Ashland, AL 36251

RE: Draft Permit
NPDES Permit No. AL0020141
Ashland WWTP
Clay County, Alabama

Dear Mr. Worthy:

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 for submittal of DMRs immediately upon issuance of this permit unless valid justification as to why you cannot participate is submitted in writing. After issuance of the permit, hard copy DMRs 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.

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 storbert@adem.alabama.gov or by phone at (334) 271-7800.

Sincerely,

A handwritten signature in black ink, appearing to read "Shanda Torbert".

Shanda Torbert
Municipal Section
Water Division

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: WATERWORKS AND SEWER BOARD OF THE CITY OF ASHLAND
POST OFFICE BOX 365
ASHLAND, ALABAMA 36251

FACILITY LOCATION: ASHLAND WWTP (1.07 AND 1.5) MGD
1225 CRAGFORD RD
ASHLAND, ALABAMA
CLAY COUNTY

PERMIT NUMBER: AL0020141

RECEIVING WATERS: HORSETROUGH 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-1 to 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 DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management

**MUNICIPAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT**

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ATTACHMENT:
FORM 421

NON-COMPLIANCE NOTIFICATION FORM

PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

- Outfall 0011 Discharge Limits - 1.07 MGD

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:

Parameter	Discharge Limitations*							Monitoring Requirements**			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO) 00300 1 0 0	*****	*****	*****	*****	6.0 mg/l	*****	*****	E	GRAB	C	*****
pH 00400 1 0 0	*****	*****	*****	*****	6.0 S.U.	8.5 S.U.	*****	E	GRAB	C	*****
Solids, Total Suspended 00530 1 0 0	267 lbs/day	401 lbs/day	30.0 mg/l	45.0 mg/l	*****	*****	*****	E	COMP24	C	*****
Solids, Total Suspended 00530 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	C	*****
Nitrogen, Ammonia Total (As N) 00610 1 0 0	17.8 lbs/day	26.7 lbs/day	2.0 mg/l	3.0 mg/l	*****	*****	*****	E	COMP24	C	S
Nitrogen, Ammonia Total (As N) 00610 1 0 0	35.6 lbs/day	53.5 lbs/day	4.0 mg/l	6.0 mg/l	*****	*****	*****	E	COMP24	C	W
Nitrogen, Kjeldahl Total (As N) 00625 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Nitrite Plus Nitrate Total I Det. (As N) 00630 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	See Note 5	*****
Phosphorus, Total (As P) 00665 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	See Note 5	*****
Zinc Total Recoverable 01094 1 0 0	*****	*****	197 µg/l	*****	*****	197 µg/l	*****	E	COMP24	See Note 5	*****

* 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

(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

B - 5 days per week

C - 3 days per week

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 (June - September)

ECW = E. coli Winter (October - May)

(5) If only one sampling event occurs during the month, the sample results shall be reported on the DMR as both the monthly average, weekly average, and/or the daily maximum.

Limits for Outfall 0011 continued on the next page.

2. Outfall 0011 Discharge Limits - 1.07 MGD (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:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Copper Total Recoverable 01119 1 0 0	*****	*****	14.0 µg/l	*****	*****	17.3 µg/l	*****	E	COMP24	G See Note 5	*****
Arsenic, Trivalent Dissolved 22680 1 0 0	*****	*****	1.58 µg/l	*****	*****	2.37 µg/l	*****	E	COMP24	G See Note 5	*****
Flow, In Conduit or Thru Treatment Plant 50050 1 0 0	REPORT MGD	*****	*****	*****	*****	REPORT MGD	*****	E	CONTIN	A	*****
Chlorine, Total Residual 50060 1 0 0	*****	*****	0.017 mg/l	*****	*****	0.030 mg/l	*****	E	GRAB	C See Note 6 & 7	*****
E. Coli 51040 1 0 0	*****	*****	126 col/100mL	*****	*****	487 col/100mL	*****	E	GRAB	C	ECS
E. Coli 51040 1 0 0	*****	*****	548 col/100mL	*****	*****	2507 col/100mL	*****	E	GRAB	C	ECW
BOD, Carbonaceous 05 Day, 20C 80082 1 0 0	89.2 lbs/day	133 lbs/day	10.0 mg/l	15.0 mg/l	*****	*****	*****	E	COMP24	C	S
BOD, Carbonaceous 05 Day, 20C 80082 1 0 0	214 lbs/day	321 lbs/day	24.0 mg/l	36.0 mg/l	*****	*****	*****	E	COMP24	C	W
BOD, Carbonaceous 05 Day, 20C 80082 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	C	*****
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

(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

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

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

(4) Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

(5) If only one sampling event occurs during the month, the sample results shall be reported on the DMR as both the monthly average, weekly average, and/or the daily maximum.

(6) 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 "NODI=9" on the monthly DMR.

(7) 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 NODI = B or *B on the discharge monitoring reports.

3. Outfall 0012 Discharge Limits – 1.5 MGD

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 0012, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Oxygen, Dissolved (DO) 00300 1 0 0	*****	*****	*****	*****	6.0 mg/l	*****	*****	E	GRAB	C	*****
pH 00400 1 0 0	*****	*****	*****	*****	6.0 S.U.	8.5 S.U.	*****	E	GRAB	C	*****
Solids, Total Suspended 00530 1 0 0	375 lbs/day	562 lbs/day	30.0 mg/l	45.0 mg/l	*****	*****	*****	E	COMP24	C	*****
Solids, Total Suspended 00530 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	C	*****
Nitrogen, Ammonia Total (As N) 00610 1 0 0	25.0 lbs/day	37.5 lbs/day	2.0 mg/l	3.0 mg/l	*****	*****	*****	E	COMP24	C	S
Nitrogen, Ammonia Total (As N) 00610 1 0 0	50.0 lbs/day	75.0 lbs/day	4.0 mg/l	6.0 mg/l	*****	*****	*****	E	COMP24	C	W
Nitrogen, Kjeldahl Total (As N) 00625 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Nitrite Plus Nitrate Total (As N) 00630 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Phosphorus, Total (As P) 00665 1 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	E	COMP24	G	*****
Zinc Total Recoverable 01094 1 0 0	*****	*****	180 µg/l	*****	*****	180 µg/l	*****	E	COMP24	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

(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

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

(4) Seasonal Limits:

S = Summer (May – November)

W = Winter (December - April)

ECS = E. coli Summer (June – September)

ECW = E. coli Winter (October – May)

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

(5) If only one sampling event occurs during the month, the sample results shall be reported on the DMR as both the monthly average, weekly average, and/or the daily maximum.

Limits for Outfall 0012 continued on the next page.

4. Outfall 0012 Discharge Limits – 1.5 MGD (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 0012, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*							Monitoring Requirements**			
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Copper Total Recoverable 01119 1 0 0	*****	*****	12.5 µg/l	*****	*****	15.8 µg/l	*****	E	COMP24	G	*****
Arsenic, Trivalent Dissolved 26680 1 0 0	*****	*****	1.21 µg/l	*****	*****	1.81 µg/l	*****	E	COMP24	See Note 5	*****
Flow, In Conduit or Thru Treatment Plant 50050 1 0 0	REPORT MGD	*****	*****	*****	*****	REPORT	*****	E	CONTIN	See Note 5	*****
Chlorine, Total Residual 50060 1 0 0	*****	*****	0.016 mg/l	*****	*****	0.027 mg/l	*****	E	GRAB	C	*****
E. Coli 51040 1 0 0	*****	*****	126 col/100mL	*****	*****	487 col/100mL	*****	E	GRAB	See Note 6 & 7	ECS
E. Coli 51040 1 0 0	*****	*****	548 col/100mL	*****	*****	2507 col/100mL	*****	E	GRAB	C	ECW
BOD, Carbonaceous 05 Day, 20C 80082 1 0 0	125 lbs/day	187 lbs/day	10.0 mg/l	15.0 mg/l	*****	*****	*****	E	COMP24	C	S
BOD, Carbonaceous 05 Day, 20C 80082 1 0 0	300 lbs/day	450 lbs/day	24.0 mg/l	36.0 mg/l	*****	*****	*****	E	COMP24	C	W
BOD, Carbonaceous 05 Day, 20C 80082 G 0 0	REPORT lbs/day	REPORT lbs/day	REPORT mg/l	REPORT mg/l	*****	*****	*****	I	COMP24	C	*****
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

(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

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

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

(4) Seasonal Limits:

S = Summer (May – November)

W = Winter (December - April)

ECS = E. coli Summer (June – September)

ECW = E. coli Winter (October – May)

(5) If only one sampling event occurs during the month, the sample results shall be reported on the DMR as both the monthly average, weekly average, and/or the daily maximum.

(6) 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 "NODI=9" on the monthly DMR.

(7) 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 NODI = B or *B on the discharge monitoring reports.

5. Outfall 001Q Discharge Limits - Quarterly Monitoring

Outfall 001Q represents the same physical outfall as Outfall 001. The Department uses the 001Q designation for all samples collected and analyzed for Quarterly testing, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*					Monitoring Requirements**					
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Mercury Total Recoverable 71901.00	*****	*****	0.017 µg/l	*****	*****	3.14 µg/l	*****	E	COMP24	H	*****

* 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

(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

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

(4) Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

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

(5) EPA Method 1631/1669E, or alternative method specifically approved by the Department shall be used for analysis of this parameter.

6. Outfall 001T Discharge Limits - Toxicity

Outfall 001T represents the same physical outfall as Outfalls 0011 and 0012. The Department uses the 001T designation for all samples collected and analyzed for Toxicity testing, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*					Monitoring Requirements**					
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2) Sample Type	(3) Measurement Frequency	(4) Seasonal
Toxicity, Ceriodaphnia Chronic 61426 1 0 0	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****
Toxicity, Pimephales Chronic 61428 1 0 0	*****	Pass = 0 Fail = 1	*****	*****	*****	*****	*****	E	COMP24	Q	*****

* 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

(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 = E.coli Summer (June - September)

ECW = E.coli Winter (October - May)

7. Outfall 002S Discharge Limits - Storm Water

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 002S, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2)(5) Sample Type	(3) Measurement Frequency	(4) Seasonal
pH 00400 1 0 0	*****	*****	*****	*****	REPORT S.U.	REPORT S.U.	*****	E	FFGS	J	*****
Solids, Total Suspended 00530 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
Oil & Grease 00556 1 0 0	*****	*****	*****	*****	*****	15.0 mg/l	*****	E	FFGS	J	*****
Nitrogen, Ammonia Total (As N) 00610 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
Nitrogen, Kjeldahl Total (As N) 00625 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
Nitrite Plus Nitrate Total (As N) 00630 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
Phosphorus, Total (As P) 00665 1 0 0	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
Flow, In Conduit or Thru Treatment Plant 50050 1 0 0	*****	*****	*****	*****	*****	REPORT MGD	*****	E	CALCTD See Note 6	J	*****
E. Coli 51040 1 0 0	*****	*****	*****	*****	*****	REPORT col/100mL	*****	E	FFGS	J	*****
BOD, Carbonaceous 05 Day, 20C 80082 1 0 0	*****	*****	*****	*****	*****	Report mg/l	*****	E	FFGS	J	*****

* 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

(5) See Part IV.F.3

(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

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

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

(4) Seasonal Limits:

S = Summer (May - November)

W = Winter (December - April)

ECS = E. coli Summer (June - September)

ECW = E. coli Winter (October - May)

(6) For all effluent parameters, samples shall be first flush grab samples (FFGS) collected during the first 30 minutes of discharge.

8. Outfall 003S Discharge Limits - Stormwater

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 003S, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations*						Monitoring Requirements**				
	Monthly Average	Weekly Average	Monthly Average	Weekly Average	Daily Minimum	Daily Maximum	Percent Removal	(1) Sample Location	(2),(5) Sample Type	(3) Measurement Frequency	(4) Seasonal
pH	*****	*****	*****	*****	REPORT S.U.	REPORT S.U.	*****	E	FFGS	J	*****
00400 1 0 0 Solids, Total Suspended	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
00530 1 0 0 Oil & Grease	*****	*****	*****	*****	*****	15.0 mg/l	*****	E	FFGS	J	*****
00556 1 0 0 Nitrogen, Ammonia Total (As N)	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
00610 1 0 0 Nitrogen, Kjeldahl Total (As N)	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
00625 1 0 0 Nitrite Plus Nitrate Total (As N)	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
00630 1 0 0 Phosphorus, Total (As P)	*****	*****	*****	*****	*****	REPORT mg/l	*****	E	FFGS	J	*****
00665 1 0 0 Flow, In Conduit or Thru Treatment Plant	*****	*****	*****	*****	*****	REPORT MGD	*****	E	CALCTD See Note 6	J	*****
50050 1 0 0 E. Coli	*****	*****	*****	*****	*****	REPORT col/100mL	*****	E	FFGS	J	*****
51040 1 0 0 BOD, Carbonaceous 05 Day, 20C	*****	*****	*****	*****	*****	Report mg/l	*****	E	FFGS	J	*****
80082 1 0 0	*****	*****	*****	*****	*****	*****	*****	E	FFGS	J	*****

* 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

CALCTD - Calculated

(5) See Part IV.F.3

(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 = E.coli Summer (June - September)

ECW = E.coli Winter (October - May)

(6) For all effluent parameters, samples shall be first flush grab samples (FFGS) collected during the first 30 minutes of discharge.

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:

- a. Seven days per week shall mean daily.
- b. 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.
- c. 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 Notification

- a. The Permittee must 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 report any of the above occurrences, describing the circumstances and potential effects, to the Department within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral or electronic report, the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c, 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 must 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. Form 421 must be submitted to the Director or Designee in accordance with Provisions I.C.2.a. or b. 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 not corrected by the due date of the written report, then the Permittee is to state the anticipated timeframe that is expected to transpire before the noncompliance is resolved; 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, including all steps taken to prevent 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. The Permittee shall also report notification of the noncompliance event to any other affected entity such as the public.
- e. The Permittee shall keep an updated record of all known wastewater discharge points that are not authorized as permitted outfalls, including but not limited to SSOs. The Permittee shall submit annual Municipal Water Pollution Prevention Plan (MWPP) reports to the Department each year by May 31st for the prior calendar year period beginning January 1st and ending December 31st. The Annual MWPP 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 MWPP shall also provide a list of any discharges reported in accordance with Provision I.C.2.a. The Permittee shall submit with its Annual MWPP Report the following information for each known unpermitted discharge that occurs:
 - (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 street address or any other appropriate method;
 - (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 or plans to eliminate future discharges.
- f. The Permittee shall report SSO and other illicit or anomalous discharge events on Form 415 in accordance with Part I.C.2.a. This form is available on the ADEM web page or upon request from the Permittee.

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. 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.

2. 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

1. 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); and
 - (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 301(c), 301(g), 301(h), 301(k), or 316(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;
- b. 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.

7. 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.
2. 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;
4. 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
6. 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

1. 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 Code of Alabama 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

1. 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

1. 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.
4. 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". Code of Alabama 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;
 - b. 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:
- Reaches a surface water of the State; or
 - 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:
- 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;
 - 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 001T.
 - b. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which is **64.00 percent for Outfall 0011 and 71.00 percent for Outfall 0012** 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 **OCTOBER**. Should results from the Annual Toxicity test indicate that Outfall 001-T 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 JANUARY, APRIL, JULY, and OCTOBER.
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

c. 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, "NODI = 9" (conditional monitoring) 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 "NODI = B" 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 E.coli 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
- (1) 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.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 WATER DIVISION – INDUSTRIAL AND MUNICIPAL SECTIONS
NONCOMPLIANCE NOTIFICATION FORM

PERMITTEE NAME: _____ PERMIT NO: _____

FACILITY LOCATION: _____

DMR REPORTING PERIOD: _____

1. DESCRIPTION OF DISCHARGE: (Include outfall number (s))

2. DESCRIPTION OF NON-COMPLIANCE: (Attach additional pages if necessary):

LIST EFFLUENT VIOLATIONS (If applicable)			
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Result Reported (Include units)	Permit Limit (Include units)
LIST MONITORING / REPORTING VIOLATIONS (If applicable)			
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Monitoring / Reporting Violation (Provide description)	

3. CAUSE OF NON-COMPLIANCE (Attach additional pages if necessary):

4. PERIOD OF NONCOMPLIANCE: (Include exact date(s) and time(s) or, if not corrected, the anticipated time the noncompliance is expected to continue):

5. DESCRIPTION OF STEPS TAKEN AND/OR BEING TAKEN TO REDUCE OR ELIMINATE THE NONCOMPLYING DISCHARGE AND TO PREVENT ITS RECURRENCE (attach additional pages if necessary):

"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."

 NAME AND TITLE OF RESPONSIBLE OFFICIAL (type or print)

 SIGNATURE OF RESPONSIBLE OFFICIAL / DATE SIGNED

NPDES PERMIT RATIONALE

NPDES Permit No: **AL0020141** Date: August 16, 2016

Permit Applicant: Waterworks and Sewer Board of the City of Ashland
Post Office Box 365
Ashland, Alabama 36251

Location: Ashland WWTP
1225 Cragford Rd
Ashland, Alabama 36251
Clay County

Draft Permit is: Initial Issuance:
Reissuance due to expiration:
Modification of existing permit:
Revocation and Reissuance:

Basis for Limitations: Water Quality Model: CBOD₅, NH₃N, and DO
Reissuance with no modification: pH, TSS, DO, E. coli, NH₃N (summer)
Percent Removals for Outfall 0011
Instream calculation at 7Q10: IWC ≈ 64% (0011) IWC ≈ 71% (0012)
Toxicity based: TRC
Secondary Treatment Levels: TSS and Percent Removals
Other (described below): pH, E. coli, Arsenic, Copper, Mercury, and Zinc

Design Flow in Million Gallons per Day: 1.07 MGD (0011) and 1.5 MGD (0012)

Major: Yes

Description of Discharge: Outfall Numbers 0011 and 0012; Effluent discharge to Horsetrough Creek, which is classified as Fish and Wildlife (F&W).

Outfall Numbers 002S and 003S; Storm water runoff to Horsetrough Creek, which is classified as Fish and Wildlife (F&W).

Discussion: This is a permit reissuance due to permit expiration. This discharge limits for Five Day Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Ammonia Nitrogen (NH₃N), and Dissolved Oxygen (D.O.) were developed by the Municipal Section based on a Waste Load Allocation (WLA) model performed by the Department's Water Quality Branch on May 18, 2016. The facility is expanding the design capacity from 1.07 MGD to 1.5 MGD. The concentration limits for both design flows are based on the May 18, 2016 WLA model. However, the loading limits were calculated based on each outfalls' respective design flows.

The summer (May through November) and winter (December through April) monthly average limits for CBOB₅ are 10.0 mg/L and 24 mg/L, respectively; while, the summer and winter monthly average limits for NH₃N are 2.0 mg/L and 4.0 mg/L, respectively. Dissolved Oxygen has a yearly daily minimum limit of 6.0 mg/L.

The pH limits were developed in accordance with the Water-Use designation of the receiving stream and the Municipal Section's Permit Development Guidance. The daily minimum and daily maximum limits are 6.0 s.u. and 8.5 s.u., respectively.

The monthly average Total Suspended Solids (TSS) limit is established at 30.0 mg/L in accordance with ADEM's Permit Development Rationale and 40 CFR 133.102. Minimum percent removal limits of 85 percent are imposed for both CBOD₅ and TSS in accordance with 40 CFR 133.102.

The receiving stream is Horsetrough Creek and it is a Tier I stream. The stream is not listed on the current 303(d) list and there are no State of Alabama TMDL affecting this discharge point at this time.

This permit imposes monthly monitoring for the following nutrient-related parameters: Total Kjeldahl Nitrogen (TKN), Total Phosphorus (TP), and Nitrate plus Nitrite-Nitrogen (NO₂+NO₃N). 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 previous permit had a TKN limit due to the WLA summary indicating the model was calibrated for Horsetrough Creek; however, the new model was not a calibrated model but desktop model. Therefore, TKN will be monitored at this time.

This Permittee treats municipal and industrial wastewater and is classified as a major municipality. Therefore, the Department completed a Reasonable Potential Analysis (RPA) of the wastewater data submitted in Part D of the Permittee's application (i.e., per 40 CFR Par 122 Appendix J – Table 2) and data from the Permittee's Discharge Monitoring Reports. The RPA indicated whether any pollutants in the treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. The RPA was based on a 7Q10 of 0.965 cfs, a mean annual flow of 6.97 cfs, and a hardness of 32.6 mg/L and background data from monitoring station HRSC-1 provided by the Department's Water Quality Branch. For this discharge, the RPA indicates that the pollutants in the treated effluent would likely to contribute to excursions of Alabama's in-stream water quality standards: Mercury, Copper, Arsenic, and Zinc. For Outfall 0011, Trivalent Dissolved Arsenic has monthly average and daily maximum limits of 1.58 µg/L and 2.37 µg/L, respectively, while Total Recoverable Zinc has monthly average and daily maximum limits of 197 µg/L. The monthly average and daily maximum limits for Total Recoverable Copper are 14.0 µg/L and 17.3 µg/L, respectively. For Outfall 0012, Trivalent Dissolved Arsenic has monthly average and daily maximum limits of 1.21 µg/L and 1.81 µg/L, respectively, while Total Recoverable Zinc has monthly average and daily maximum limits of 180 µg/L. The monthly average and daily maximum limits for Total Recoverable Copper are 12.5 µg/L and 15.8 µg/L, respectively. The monthly average and daily maximum limits for Total Recoverable Mercury are 0.017 µg/L and 3.14 µg/L for both outfalls.

The imposed E. coli limits were determined based on the water-use classification of the receiving stream. Since Horsetrough Creek is classified as Fish & Wildlife, the E. coli limits for summer (June through September) are 126 col/100 mL (monthly average) and 487 col/100 mL (daily maximum), while the limits for the winter (October through May) are 548 col/ 100 mL (monthly average) and 2507 col/100 mL (daily maximum).

Monthly average and daily maximum TRC limitations of 0.017 mg/L and 0.030 mg/L, respectively, are being imposed at Outfall 0011; while the monthly average and daily maximum TRC limit for Outfall

0012 is 0.016 mg/L and 0.027 mg/L. The TRC limits were developed based on EPA suggested WQ criteria and the Department's Permit Development Rationale, and should be protective of acute and chronic toxicity criteria in the receiving stream. If monitoring is not applicable during the monitoring period, enter "NODI=9" on the monthly DMR. In accordance with a letter date August 11, 1998 from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a Total Residual Chlorine measurement below 0.05 mg/L shall be considered below detection for compliance purposes.

Based on the Department's review of the application and receiving water conditions, chronic toxicity testing is warranted. This permit imposes toxicity testing for both Ceriodaphnia dubia and fathead minnows (Pimephales). The Permittee will be required to test annually in the month of October. The IWC for this facility is 64 percent for Outfall 0011 and 71 percent for Outfall 0012.

Storm water runoff monitoring is being imposed by this permit based on 40 CFR Part 122. The designated outfalls for storm water runoff monitoring are 002S and 003S, respectively. Storm water runoff is to be monitored annually

The monitoring frequency for most parameters is three days per week. The monitoring frequency for nutrient-related parameters (TKN, TP, and NO₂+NO₃N) is once per month. Flow is to be monitored continuously as in the previous permit. The monitoring frequency for metals and percent removals will be monthly, while Mercury has a quarterly frequency.

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 discharge or expanded discharge to Tier II water, so the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Ashland WWTP	
NPDES Permit Number:	AL0020141	
Receiving Stream:	Horsetrough Creek	
Facility Design Flow (Qw):	1.070 MGD	
Receiving Stream 7Q10:	0.965 cfs	
Receiving Stream 1Q10:	0.724 cfs	(Estimated at 0.75 * 7Q10)
Winter Headwater Flow (WHF):	0.97 cfs	
Summer Temperature for CCC:	30 deg. Celsius	
Winter Temperature for CCC:	20 deg. Celsius	
Headwater Background NH3-N Level:	0.11 mg/l	
Receiving Stream pH:	7.0 s.u.	
Headwater Background FC Level (summer):	N./A.	(Only applicable for facilities with diffusers.)
(winter):	N./A.	

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

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 63.18\%$$

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.

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 63.18\% \qquad \qquad \qquad \text{Effluent-Dominated, CCC Applies} \end{aligned}$$

Criterion Maximum Concentration (CMC): $CMC = 0.411 / (1 + 10^{(7.204 - pH)}) + 58.4 / (1 + 10^{(pH - 7.204)})$
 Criterion Continuous Concentration (CCC): $CCC = [0.0577 / (1 + 10^{(7.688 - pH)}) + 2.487 / (1 + 10^{(pH - 7.688)})] * \text{Min}[2.85, 1.45 * 10^{(0.028 * (25 - T))}]$

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH3-N:	36.09 mg/l	2.18 mg/l
Allowable Winter Instream NH3-N:	36.09 mg/l	4.15 mg/l

$$\begin{aligned} \text{Summer NH3-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH3-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH3-N}) * (7Q_{10})]}{Q_w} \\ &= 3.4 \text{ mg/l NH3-N at 7Q10} \end{aligned}$$

$$\begin{aligned} \text{Winter NH3-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH3-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH3-N}) * (\text{WHF})]}{Q_w} \\ &= 6.6 \text{ mg/l NH3-N at Winter Flow} \end{aligned}$$

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.

	<u>DO-based NH3-N limit</u>	<u>Toxicity-based NH3-N limit</u>
Summer	2.00 mg/l NH3-N	3.40 mg/l NH3-N
Winter	4.00 mg/l NH3-N	6.60 mg/l NH3-N

Summer: The DO based limit of 2.00 mg/l NH3-N applies.

Winter: The DO based limit of 4.00 mg/l NH3-N applies.

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

Instream Waste Concentration (IWC) = $\frac{Q_w}{7Q_{10} + Q_w}$ = **63.18%** 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 (colonies/100ml)	Effluent Limit (colonies/100ml)
<u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u>		
Monthly limit as monthly average (October through May):	548	548
Monthly limit as monthly average (June through September):	126	126
Daily Max (October through May):	2507	2507
Daily Max (June through September):	487	487
<u>Enterococci (applies to Coastal)</u>		
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:	0.017 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	0.030 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: Shanda Torbert Date: 9/22/2016

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Ashland WWTP	
NPDES Permit Number:	AL0020141	
Receiving Stream:	Horsetrough Creek	
Facility Design Flow (Qw):	1.500 MGD	
Receiving Stream 7Q10:	0.965 cfs	
Receiving Stream 1Q10:	0.724 cfs	(Estimated at 0.75 * 7Q10)
Winter Headwater Flow (WHF):	0.97 cfs	
Summer Temperature for CCC:	30 deg. Celsius	
Winter Temperature for CCC:	20 deg. Celsius	
Headwater Background NH3-N Level:	0.11 mg/l	
Receiving Stream pH:	7.0 s.u.	
Headwater Background FC Level (summer):	N./A.	(Only applicable for facilities with diffusers.)
(winter):	N./A.	

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

$$\text{Stream Dilution Ratio (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 70.63\%$$

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.

$$\text{Limiting Dilution} = \frac{Q_w}{7Q_{10} + Q_w} = 70.63\% \quad \text{Effluent-Dominated, CCC Applies}$$

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

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

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH3-N:	36.09 mg/l	2.18 mg/l
Allowable Winter Instream NH3-N:	36.09 mg/l	4.15 mg/l

$$\text{Summer NH3-N Toxicity Limit} = \frac{[(\text{Allowable Instream NH3-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH3-N}) * (7Q_{10})]}{Q_w} = 3.1 \text{ mg/l NH3-N at 7Q10}$$

$$\text{Winter NH3-N Toxicity Limit} = \frac{[(\text{Allowable Instream NH3-N}) * (\text{WHF} + Q_w)] - [(\text{Headwater NH3-N}) * (\text{WHF})]}{Q_w} = 5.9 \text{ mg/l NH3-N at Winter Flow}$$

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.

	<u>DO-based NH3-N limit</u>	<u>Toxicity-based NH3-N limit</u>
Summer	2.00 mg/l NH3-N	3.10 mg/l NH3-N
Winter	4.00 mg/l NH3-N	5.90 mg/l NH3-N

Summer: The DO based limit of 2.00 mg/l NH3-N applies.

Winter: The DO based limit of 4.00 mg/l NH3-N applies.

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

$$\text{Instream Waste Concentration (IWC)} = \frac{Q_w}{7Q_{10} + Q_w} = 70.63\%$$

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 (colonies/100ml)	Effluent Limit (colonies/100ml)
<u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u>		
Monthly limit as monthly average (October through May):	548	548
Monthly limit as monthly average (June through September):	126	126
Daily Max (October through May):	2507	2507
Daily Max (June through September):	487	487
<u>Enterococci (applies to Coastal)</u>		
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:	0.016 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	0.027 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: Shanda Torbert Date: 6/28/2016

FACT SHEET

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

Date: September 22, 2016

Prepared By: Shanda Torbert

NPDES Permit No. AL0020141

1. Name and Address of Applicant:

Waterworks and Sewer Board of the City of Ashland
Post Office Box 365
Ashland, AL 36251

2. Name and Address of Facility:

Ashland WWTP
1225 Cragford Rd
Ashland, Alabama 36251

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

Wastewater Treatment Plant

4. Applicant's Receiving Waters

<u>Receiving Waters</u>	<u>Classification</u>
HORSETROUGH 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
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.

$Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$										
ID	Pollutant	Carcinogen Yes*	Type	Background	Background	Background	Background	Enter Max	Enter Avg	Partition Coefficient (Stream / Lake)
				from upstream source (C _{d2}) Daily Max	from upstream source (C _{d2}) Monthly Ave	Instream (C _s) Daily Max	Instream (C _s) Monthly Ave	Discharge as reported by Applicant (C _{dmax})	Discharge as reported by Applicant (C _{davg})	
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
1	Antimony		Metals	0	0	0	0	0	0	1.07
2	Arsenic**, **	YES	Metals	0	0	0	0	15	1.12097	0.574
3	Beryllium		Metals	0	0	0	0	0	0	1.65535
4	Cadmium**		Metals	0	0	0	0	0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0	
7	Copper**		Metals	0	0	0	0	15.5	9.13	0.388
8	Lead**		Metals	0	0	0	0	5.81	9.221	0.467
9	Mercury**		Metals	0	0	0	0	0.019	0.00753	0.302
10	Nickel**		Metals	0	0	0	0	0	0	0.506
11	Selenium		Metals	0	0	0	0	0	0	
12	Silver		Metals	0	0	0	0	0	0	
13	Thallium		Metals	0	0	0	0	0	0	
14	Zinc**		Metals	0	0	0	0	162	100	0.330
15	Cyanide		Metals	0	0	0	0	2.8	0.9	
16	Total Phenolic Compounds		Metals	0	0	0	0	47	23	
17	Hardness (As CaCO3)		Metals	0	0	49000	32600	62400	52400	
18	Acrolein		VOC	0	0	0	0	0	0	
19	Acrylonitrile*	YES	VOC	0	0	0	0	0	0	
20	Aldrin	YES	VOC	0	0	0	0	0	0	
21	Benzene*	YES	VOC	0	0	0	0	0	0	
22	Bromoform*	YES	VOC	0	0	0	0	0	0	
23	Carbon Tetrachloride*	YES	VOC	0	0	0	0	0	0	
24	Chlordane	YES	VOC	0	0	0	0	0	0	
25	Dioxobenzene		VOC	0	0	0	0	0	0	
26	Dichlorobromo-Methane*	YES	VOC	0	0	0	0	0	0	
27	Dichloroethane		VOC	0	0	0	0	0	0	
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	
29	Chloroform*	YES	VOC	0	0	0	0	4.95	1.65	
30	4,4'-DDD	YES	VOC	0	0	0	0	0	0	
31	4,4'-DDE	YES	VOC	0	0	0	0	0	0	
32	4,4'-DDT	YES	VOC	0	0	0	0	0	0	
33	Dichlorobromo-Methane*	YES	VOC	0	0	0	0	0	0	
34	1, 1-Dichloroethane		VOC	0	0	0	0	0	0	
35	1, 2-Dichloroethane*	YES	VOC	0	0	0	0	0	0	
36	Trans-1, 2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	
37	1, 1-Dichloroethylene*	YES	VOC	0	0	0	0	0	0	
38	1, 2-Dichloropropane		VOC	0	0	0	0	0	0	
39	1, 3-Dichloro-Propylene		VOC	0	0	0	0	0	0	
40	Dieldrin	YES	VOC	0	0	0	0	0	0	
41	Ethylbenzene		VOC	0	0	0	0	0	0	
42	Methyl Bromide		VOC	0	0	0	0	0	0	
43	Methyl Chloride		VOC	0	0	0	0	0	0	
44	Methylene Chloride*	YES	VOC	0	0	0	0	0	0	
45	1, 1, 2, 2-Tetrachloro-Ethane*	YES	VOC	0	0	0	0	0	0	
46	Tetrachloro-Ethylene*	YES	VOC	0	0	0	0	0	0	
47	Toluene		VOC	0	0	0	0	0	0	
48	Toxaphene	YES	VOC	0	0	0	0	0	0	
49	Tributyltin (TBT)	YES	VOC	0	0	0	0	0	0	
50	1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0	
51	1, 1, 2-Trichloroethane*	YES	VOC	0	0	0	0	0	0	
52	Trichloroethylene*	YES	VOC	0	0	0	0	0	0	
53	Vinyl Chloride*	YES	VOC	0	0	0	0	0	0	
54	p-Chloro-m-Cresol		Acids	0	0	0	0	0	0	
55	2-Chlorophenol		Acids	0	0	0	0	0	0	
56	2, 4-Dichlorophenol		Acids	0	0	0	0	0	0	
57	2, 4-Dimethylphenol		Acids	0	0	0	0	0	0	
58	6-Dinitro-o-Cresol		Acids	0	0	0	0	0	0	
59	2, 4-Dinitrophenol		Acids	0	0	0	0	0	0	
60	4,6-Dinitro-2-methylphenol	YES	Acids	0	0	0	0	0	0	
61	Dioxin (2,3,7,8-TCDD)	YES	Acids	0	0	0	0	0	0	
62	2-Nitrophenol		Acids	0	0	0	0	0	0	
63	4-Nitrophenol		Acids	0	0	0	0	0	0	
64	2,4-Dichlorophenol*	YES	Acids	0	0	0	0	0	0	
65	Phenol		Acids	0	0	0	0	0	0	
66	2, 4, 6-Trichlorophenol*	YES	Acids	0	0	0	0	0	0	
67	Acenaphthene		Bases	0	0	0	0	0	0	
68	Acenaphthylene		Bases	0	0	0	0	0	0	
69	Anthracene		Bases	0	0	0	0	0	0	
70	Benzidine		Bases	0	0	0	0	0	0	
71	Benzo(A)Anthracene*	YES	Bases	0	0	0	0	0	0	
72	Benzo(A)Pyrene*	YES	Bases	0	0	0	0	0	0	
73	3, 4-Benzo-Fluoranthene		Bases	0	0	0	0	0	0	
74	Benzo(GH)Perylene		Bases	0	0	0	0	0	0	
75	Benzo(K)Fluoranthene		Bases	0	0	0	0	0	0	
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	
77	Bis (2-Chloroethyl) Ether*	YES	Bases	0	0	0	0	0	0	
78	Bis (2-Chloroisopropyl) Ether		Bases	0	0	0	0	0	0	
79	Bis (2-Ethylhexyl) Phthalate*	YES	Bases	0	0	0	0	0	0	
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	
82	2-Chloroanisole*		Bases	0	0	0	0	0	0	
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	
84	Chrysenes*	YES	Bases	0	0	0	0	0	0	
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	
87	Dibenz(A,H)Anthracene*	YES	Bases	0	0	0	0	0	0	
88	1, 2-Dichlorobenzene		Bases	0	0	0	0	0	0	
89	1, 3-Dichlorobenzene		Bases	0	0	0	0	0	0	
90	1, 4-Dichlorobenzene		Bases	0	0	0	0	0	0	
91	3, 3-Dichlorobenzene*	YES	Bases	0	0	0	0	0	0	
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	
94	2, 4-Dinitrotoluene*	YES	Bases	0	0	0	0	0	0	
95	1, 6-Dinitrotoluene		Bases	0	0	0	0	0	0	
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	
97	Endosulfan (alpha)	YES	Bases	0	0	0	0	0	0	
98	Endosulfan (beta)	YES	Bases	0	0	0	0	0	0	
99	Endosulfan sulfate	YES	Bases	0	0	0	0	0	0	
100	Endrin	YES	Bases	0	0	0	0	0	0	
101	Endrin Aldehyde	YES	Bases	0	0	0	0	0	0	
102	Fluoranthene		Bases	0	0	0	0	0	0	
103	Fluorene		Bases	0	0	0	0	0	0	
104	Heptachlor	YES	Bases	0	0	0	0	0	0	
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	
106	Hexachlorobenzene*	YES	Bases	0	0	0	0	0	0	
107	Hexachlorobutadiene*	YES	Bases	0	0	0	0	0	0	
108	Hexachlorocyclohexan (alpha)	YES	Bases	0	0	0	0	0	0	
109	Hexachlorocyclohexan (beta)	YES	Bases	0	0	0	0	0	0	
110	Hexachlorocyclohexan (gamma)	YES	Bases	0	0	0	0	0	0	
111	Hexachlorocyclopentadiene		Bases	0	0	0	0	0	0	
112	Hexachloroethane		Bases	0	0	0	0	0	0	
113	Indeno(1, 2, 3-CK)Pyrene*	YES	Bases	0	0	0	0	0	0	
114	Isoophorene		Bases	0	0	0	0	0	0	
115	Naphthalene		Bases	0	0	0	0	0	0	
116	Nitrobenzene		Bases	0	0	0	0	0	0	
117	N-Nitrosodi-N-Propylamine*	YES	Bases	0	0	0	0	0	0	
118	N-Nitrosodi-N-Methylamine*	YES	Bases	0	0	0	0	0	0	
119	N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	0	0	0	0	
120	PCB-1016	YES	Bases	0	0	0	0	0	0	
121	PCB-1221	YES	Bases	0	0	0	0	0	0	
122	PCB-1232	YES	Bases	0	0	0	0	0	0	
123	PCB-1242	YES	Bases	0	0	0	0	0	0	
124	PCB-1248	YES	Bases	0	0	0	0	0	0	
125	PCB-1254	YES	Bases	0	0	0	0	0	0	
126	PCB-1260	YES	Bases	0	0	0	0	0	0	
127	Phenanthrene		Bases	0	0	0	0	0	0	
128	Pyrene		Bases	0	0	0	0	0	0	
129	1, 2, 4-Trichlorobenzene		Bases	0	0	0	0	0	0	

1.07	Enter Q _d = wastewater discharge flow from facility (MGD)
1.65535	Q _d = wastewater discharge flow (cfs) (this value is calculated from the MGD)
0	Enter or estimated, Q _{d2} = background stream flow from upstream source (cfs)
0.965	Enter TQ10, Q _s = background stream flow in cfs above point of discharge
0.72375	Enter or estimated, 1Q10, Q _s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of TQ10)
0	Enter flow from upstream discharge Q _{d2} = background stream flow in MGD above point of discharge
6.97	Enter Mean Annual Flow, Q _s = background stream flow in cfs above point of discharge
0	Enter TQ2, Q _s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	Enter C _s = background in-stream pollutant concentration in ug/l (assuming this is zero "0" unless there is data)
Q _d + Q _{d2} + Q _s	Q _r = resultant in-stream flow, after discharge
C _d + C _{d2} + C _s	C _r = resultant in-stream pollutant concentration in ug/l in the stream (after complete mixing occurs)
32.6	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 to a Lake. (This changes the partition coefficients for the metals)

** Using Partition Coefficients

September 22, 2016
Modified: 8/4/09

Facility Name: Ashland WWTP														Human Health Consumption Fish only (µg/l)						
NPDES No.: AL0020141														Carcinogen Q _a Annual Average						
Freshwater F&W classification:														Non-Carcinogen Q _a = 7010						
ID	Pollutant	RP?	Carcinogen	Background from upstream source (CGZ) Daily Max	Max Daily Discharge as reported by Applicant (C _{max})	Freshwater Acute (µg/l) Q _a = 1Q10				Avg Daily Discharge as reported by Applicant (C _{max})	Freshwater Chronic (µg/l) Q _a = 7Q10				Carcinogen Q _a Annual Average					
						Water Quality Criteria (C _c)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?		Background from upstream source (CGZ) Monthly Ave	Water Quality Criteria (C _c)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C _c)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?	
1	Antimony			0	0	-	-	-	-	0	-	-	-	-	3.73E+02	5.91E+02	1.18E+02	No		
2	Arsenic	YES	YES	0	15	592.334	851.285	170.257	No	0	1,120.97	261.324	413.648	82.730	No	3.03E-01	1.59E+00	3.16E-01	Yes	
3	Beryllium			0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
4	Cadmium			0	0	2.868	4.119	0.824	No	0	0	0.478	0.756	0.151	No	-	-	-	-	
5	Chromium/ Chromium III			0	0	1083.429	1567.072	311.414	No	0	0	140.932	223.080	44.616	No	-	-	-	-	
6	Chromium/ Chromium VI			0	0	16.000	22.995	4.599	No	0	0	11.000	17.412	3.482	No	-	-	-	-	
7	Copper	YES		0	15.5	12.047	17.314	3.483	Yes	0	9.13	9.858	14.021	2.804	Yes	1.30E+03	2.06E+03	4.12E+02	No	
8	Lead			0	0	5.81	40.053	57.563	11.513	No	0	0.221	1.561	2.471	0.494	No	-	-	-	-
9	Mercury	YES		0	0.019	2.400	3.448	0.690	No	0	0.00753	0.012	0.019	0.004	Yes	4.24E-02	8.72E-02	1.34E-02	No	
10	Nickel			0	0	359.216	516.254	103.251	No	0	0	38.868	63.154	12.631	No	9.93E-02	1.57E+03	3.14E+02	No	
11	Selenium			0	0	20.000	28.743	5.749	No	0	0	5.000	7.914	1.583	No	2.43E+03	3.85E+03	7.69E+02	No	
12	Silver			0	0	0.468	0.672	0.134	No	0	0	-	-	-	-	-	-	-	-	
13	Thallium			0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
14	Zinc	YES		0	162	137.370	197.423	39.485	Yes	0	100	138.493	219.220	43.844	Yes	1.48E+04	2.36E+04	4.72E+03	No	
15	Cyanide			0	2.8	22.000	31.618	6.324	No	0	0.9	5.200	8.231	1.646	No	9.33E+03	1.48E+04	2.95E+03	No	
16	Total Phenolic Compounds			0	47	-	-	-	-	0	73	-	-	-	-	-	-	-	-	
17	Hardness (As CaCO3)			0	62400	-	-	-	-	0	53030	-	-	-	-	-	-	-	-	
18	Acrolein			0	0	-	-	-	-	0	-	-	-	-	-	5.43E+00	8.59E+00	1.72E+00	No	
19	Acrylonitrile		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.44E-01	7.50E-01	1.50E-01	No	
20	Atrazin		YES	0	0	3.000	4.312	0.862	No	0	0	1.300	2.058	0.412	No	2.94E-05	1.53E-04	3.06E-05	No	
21	Benzene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.55E+01	8.06E+01	1.61E+01	No	
22	Bromoform		YES	0	0	-	-	-	-	0	-	-	-	-	-	7.88E+01	4.10E+02	8.21E+01	No	
23	Carbon Tetrachloride		YES	0	0	-	-	-	-	0	-	-	-	-	-	9.57E-01	4.99E+00	9.97E-01	No	
24	Chloroform		YES	0	0	2.400	3.449	0.690	No	0	0	0.004	0.007	0.001	No	4.73E-04	2.46E-03	4.93E-04	No	
25	Chlorobenzene		YES	0	0	-	-	-	-	0	-	-	-	-	-	9.06E-02	1.43E+03	2.87E+02	No	
26	Chlorobromomethane		YES	0	0	-	-	-	-	0	-	-	-	-	-	7.41E+00	3.86E+01	7.72E+00	No	
27	Chloroethane		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
28	2-Chloro-Ethylvinyl Ether		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
29	Chloroform		YES	0	4.95	-	-	-	-	0	1.65	-	-	-	-	1.02E+02	5.31E+02	1.06E+02	No	
30	4,4'- DDD		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.81E+04	9.45E-04	1.86E-04	No	
31	4,4'- DDE		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.28E+04	6.67E-04	1.33E-04	No	
32	4,4'- DDT		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.28E+04	6.67E-04	1.33E-04	No	
33	Dichlorobromo-Methane		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.00E+01	5.23E+01	1.05E+01	No	
34	1,1-Dichloroethane		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
35	1,2-Dichloroethane		YES	0	0	-	-	-	-	0	-	-	-	-	-	2.14E+01	1.11E+02	2.23E+01	No	
36	Trans-1,2-Dichloro-Ethylene		YES	0	0	-	-	-	-	0	-	-	-	-	-	5.91E+03	9.35E+03	1.87E+03	No	
37	1,1-Dichloroethylene		YES	0	0	-	-	-	-	0	-	-	-	-	-	4.17E+03	2.17E+04	4.34E+03	No	
38	1,2-Dichloropropane		YES	0	0	-	-	-	-	0	-	-	-	-	-	8.40E+00	1.34E+01	2.69E+00	No	
39	1,3-Dichloro-Propylene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.23E+01	1.94E+01	3.89E+00	No	
40	Dieldrin		YES	0	0	0.240	0.345	0.069	No	0	0	0.056	0.089	0.018	No	3.12E-05	1.63E-04	3.25E-05	No	
41	Ethylbenzene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.24E+03	1.97E+03	3.94E+02	No	
42	Methyl Bromide		YES	0	0	-	-	-	-	0	-	-	-	-	-	8.71E+02	1.38E+03	2.78E+02	No	
43	Methyl Chloride		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
44	Methylene Chloride		YES	0	0	-	-	-	-	0	-	-	-	-	-	3.48E+02	1.80E+03	3.60E+02	No	
45	1,1,2,2-Tetrachloro-Ethane		YES	0	0	-	-	-	-	0	-	-	-	-	-	2.33E+00	1.22E+01	2.43E+00	No	
46	Tetrachloro-Ethylene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.92E+00	9.99E+00	2.00E+00	No	
47	Toluene		YES	0	0	-	-	-	-	0	-	-	-	-	-	8.72E+03	1.38E+04	2.76E+03	No	
48	Toxaphene		YES	0	0	0.730	1.049	0.210	No	0	0	0.0002	0.000	0.000	No	1.62E-04	8.44E-04	1.69E-04	No	
49	Tributyltin (TBT)		YES	0	0	0.460	0.661	0.132	No	0	0	0.072	0.114	0.023	No	-	-	-	-	
50	1,1,1-Trichloroethane		YES	0	0	-	-	-	-	0	-	-	-	-	-	9.10E+00	4.74E+01	9.48E+00	No	
51	1,1,2-Trichloroethane		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.75E+01	9.10E+01	1.82E+01	No	
52	Trichloroethylene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.42E+00	7.42E+00	1.48E+00	No	
53	Vinyl Chloride		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
54	p-Chloro-m-Cresol		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
55	2-Chlorophenol		YES	0	0	-	-	-	-	0	-	-	-	-	-	8.71E+01	1.38E+02	2.76E+01	No	
56	2,4-Dichlorophenol		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.72E+02	2.72E+02	5.44E+01	No	
57	2,6-Dichlorophenol		YES	0	0	-	-	-	-	0	-	-	-	-	-	4.98E+02	7.88E+02	1.58E+02	No	
58	4,6-Dinitro-O-Cresol		YES	0	0	-	-	-	-	0	-	-	-	-	-	3.11E+03	4.92E+03	9.85E+02	No	
59	2,4-Dinitrophenol		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.65E+02	8.62E+02	1.72E+02	No	
60	4,6-Dinitro-2-methylphenol		YES	0	0	-	-	-	-	0	-	-	-	-	-	2.67E-08	1.39E-07	2.78E-08	No	
61	Dioxin (2,3,7,8-TCDD)		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
62	2-Nitrophenol		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
63	4-Nitrophenol		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
64	Pentachlorophenol		YES	0	0	8.723	12.537	2.507	No	0	0	6.693	10.594	2.119	No	1.77E+00	9.21E+00	1.84E+00	No	
65	Phenol		YES	0	0	-	-	-	-	0	-	-	-	-	-	5.00E+05	7.91E+05	1.58E+05	No	
66	2,4,6-Trichlorophenol		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.41E+00	7.37E+00	1.47E+00	No	
67	Acephenanthrene		YES	0	0	-	-	-	-	0	-	-	-	-	-	5.79E+02	9.16E+02	1.83E+02	No	
68	Acenaphthylene		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
69	Anthracene		YES	0	0	-	-	-	-	0	-	-	-	-	-	2.33E+04	3.69E+04	7.39E+03	No	
70	Benzo(a)Anthracene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.16E-04	1.84E-04	3.67E-05	No	
71	Benzo(a)Anthracene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.07E-02	5.55E-02	1.11E-02	No	
72	Benzo(a)Pyrene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.07E-02	5.55E-02	1.11E-02	No	
73	3,4-Benzo-Fluoranthene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.07E-02	5.55E-02	1.11E-02	No	
74	Benzo(GH)Perylene		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
75	Benzo(K)Fluoranthene		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.07E-02	5.55E-02	1.11E-02	No	
76	Ben (2-Chloroethoxy) Methane		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
77	Ben (2-Chloroethyl) Ether		YES	0	0	-	-	-	-	0	-	-	-	-	-	3.07E-01	1.60E+00	3.20E-01	No	
78	Ben (2-Chloroisopropyl) Ether		YES	0	0	-	-	-	-	0	-	-	-	-	-	3.78E+04	5.98E+04	1.20E+04	No	
79	Ben (2-Ethylhexyl) Phthalate		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.28E+00	6.68E+00	1.34E+00	No	
80	4-Bromophenyl Phenyl Ether		YES	0	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	
81	Butyl Benzyl Phthalate		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.13E+03	1.78E+03	3.57E+02	No	
82	2-Chloronaphthalene		YES	0	0	-	-	-	-	0	-	-	-	-	-	9.24E+02	1.48E+03	2.93E+02	No	
83	4-Chlorophenyl Phenyl Ether		YES	0	0	-	-	-	-	0	-	-	-	-	-	1.07E-02	5.55E-02	1.11E-02	No	
84	Chrysene		YES	0	0	-	-	-	-	0	-	-	-	-	-	2.62				

$Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$										
ID	Pollutant	Carbonogen "yes"	Type	Background	Background	Background	Background	Enter Max	Enter Avg	Partition
				from upstream source (C _{d1}) Daily Max	from upstream source (C _{d1}) Monthly Ave	(C _d) Daily Max	Instream (C _d) Monthly Ave	Discharge as reported by Applicant (C _{dmax}) Daily	Discharge as reported by Applicant (C _{davg}) Monthly	
1	Antimony		Metals	0	0	0	0	0	0	-
2	Arsenic**	YES	Metals	0	0	0	0	15	1.12097	0.574
3	Beryllium		Metals	0	0	0	0	0	0	-
4	Cadmium**		Metals	0	0	0	0	0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0	-
7	Copper**		Metals	0	0	0	0	15.5	9.13	0.388
8	Lead**		Metals	0	0	0	0	5.81	0.221	0.467
9	Mercury**		Metals	0	0	0	0	0.019	0.00753	0.302
10	Nickel**		Metals	0	0	0	0	0	0	0.505
11	Selenium		Metals	0	0	0	0	0	0	-
12	Silver		Metals	0	0	0	0	0	0	-
13	Thallium		Metals	0	0	0	0	0	0	-
14	Zinc**		Metals	0	0	0	0	162	100	0.330
15	Cyanide		Metals	0	0	0	0	2.8	0.9	-
16	Total Phenolic Compounds		Metals	0	0	0	0	47	23	-
17	Hardness (As CaCO3)		Metals	0	0	40000	32600	62400	53030	-
18	Acroetin		VOC	0	0	0	0	0	0	-
19	Acrylonitrile*	YES	VOC	0	0	0	0	0	0	-
20	Aldrin	YES	VOC	0	0	0	0	0	0	-
21	Benzene*	YES	VOC	0	0	0	0	0	0	-
22	Bromoform*	YES	VOC	0	0	0	0	0	0	-
23	Carbon Tetrachloride*	YES	VOC	0	0	0	0	0	0	-
24	Chlordane	YES	VOC	0	0	0	0	0	0	-
25	Chlorobenzene		VOC	0	0	0	0	0	0	-
26	ChloroDibromo-Methane*	YES	VOC	0	0	0	0	0	0	-
27	Chloroethane		VOC	0	0	0	0	0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	-
29	ChloroForm*	YES	VOC	0	0	0	0	4.95	1.65	-
30	4,4'-DDD	YES	VOC	0	0	0	0	0	0	-
31	4,4'-DDE	YES	VOC	0	0	0	0	0	0	-
32	4,4'-DDT	YES	VOC	0	0	0	0	0	0	-
33	Dichlorobromo-Methane*	YES	VOC	0	0	0	0	0	0	-
34	1,1-Dichloroethane		VOC	0	0	0	0	0	0	-
35	1,2-Dichloroethane*	YES	VOC	0	0	0	0	0	0	-
36	Trans-1,2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	-
37	1,1-Dichloroethylene*	YES	VOC	0	0	0	0	0	0	-
38	1,2-Dichloropropane		VOC	0	0	0	0	0	0	-
39	1,3-Dichloro-Propylene		VOC	0	0	0	0	0	0	-
40	Dieldrin	YES	VOC	0	0	0	0	0	0	-
41	Ethylbenzene		VOC	0	0	0	0	0	0	-
42	Methyl Bromide		VOC	0	0	0	0	0	0	-
43	Methyl Chloride		VOC	0	0	0	0	0	0	-
44	Methylene Chloride*	YES	VOC	0	0	0	0	0	0	-
45	1,1,1,2-Tetrachloro-Ethane*	YES	VOC	0	0	0	0	0	0	-
46	Tetrachloro-Ethylene*	YES	VOC	0	0	0	0	0	0	-
47	Toluene		VOC	0	0	0	0	0	0	-
48	Texaphene	YES	VOC	0	0	0	0	0	0	-
49	Tributyltine (TBT)	YES	VOC	0	0	0	0	0	0	-
50	1,1,1-Trichloroethane		VOC	0	0	0	0	0	0	-
51	1,1,2-Trichloroethane*	YES	VOC	0	0	0	0	0	0	-
52	Trichloroethylene*	YES	VOC	0	0	0	0	0	0	-
53	Vinyl Chloride*	YES	VOC	0	0	0	0	0	0	-
54	p-Chloro-m-Cresol		Acids	0	0	0	0	0	0	-
55	2-Chlorophenol		Acids	0	0	0	0	0	0	-
56	2,4-Dichlorophenol		Acids	0	0	0	0	0	0	-
57	2,4-Dimethylphenol		Acids	0	0	0	0	0	0	-
58	4-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	-
59	2,4-Dinitrophenol		Acids	0	0	0	0	0	0	-
60	4,6-Dinitro-2-methylphenol	YES	Acids	0	0	0	0	0	0	-
61	Dioxin (2,3,7,8-TCDD)	YES	Acids	0	0	0	0	0	0	-
62	2-Nitrophenol		Acids	0	0	0	0	0	0	-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	-
64	Pentachlorophenol*	YES	Acids	0	0	0	0	0	0	-
65	Phenol		Acids	0	0	0	0	0	0	-
66	2,4,6-Trichlorophenol*	YES	Acids	0	0	0	0	0	0	-
67	Acenaphthene		Bases	0	0	0	0	0	0	-
68	Acenaphthylene		Bases	0	0	0	0	0	0	-
69	Anthracene		Bases	0	0	0	0	0	0	-
70	Benzo(a)anthracene		Bases	0	0	0	0	0	0	-
71	Benzo(a)fluoranthene*	YES	Bases	0	0	0	0	0	0	-
72	Benzo(a)pyrene*	YES	Bases	0	0	0	0	0	0	-
73	3,4-Benzo-Fluoranthene		Bases	0	0	0	0	0	0	-
74	Benzo(ghi)perylene		Bases	0	0	0	0	0	0	-
75	Benzo(k)fluoranthene		Bases	0	0	0	0	0	0	-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	-
77	Bis (2-Chloroethyl) Ether*	YES	Bases	0	0	0	0	0	0	-
78	Bis (2-Chloro-Propyl) Ether		Bases	0	0	0	0	0	0	-
79	Bis (2-Ethylhexyl) Phthalate*	YES	Bases	0	0	0	0	0	0	-
80	4-Siromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0	-
83	4-Chlorobenzyl Phenyl Ether		Bases	0	0	0	0	0	0	-
84	Chrysene*	YES	Bases	0	0	0	0	0	0	-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	-
87	Dibenzo(A,H)Anthracene*	YES	Bases	0	0	0	0	0	0	-
88	1,2-Dichlorobenzene		Bases	0	0	0	0	0	0	-
89	1,3-Dichlorobenzene		Bases	0	0	0	0	0	0	-
90	1,4-Dichlorobenzene		Bases	0	0	0	0	0	0	-
91	3,3-Dichlorobenzene*	YES	Bases	0	0	0	0	0	0	-
92	Dethyl Phthalate		Bases	0	0	0	0	0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	-
94	2,4-Dinitrotoluene*	YES	Bases	0	0	0	0	0	0	-
95	2,6-Dinitrotoluene		Bases	0	0	0	0	0	0	-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	-
97	Endosulfan (alpha)	YES	Bases	0	0	0	0	0	0	-
98	Endosulfan (beta)	YES	Bases	0	0	0	0	0	0	-
99	Endosulfan sulfate	YES	Bases	0	0	0	0	0	0	-
100	Endrin	YES	Bases	0	0	0	0	0	0	-
101	Endrin Alderhyde	YES	Bases	0	0	0	0	0	0	-
102	Fluoranthene		Bases	0	0	0	0	0	0	-
103	Fluorene		Bases	0	0	0	0	0	0	-
104	Heptachlor	YES	Bases	0	0	0	0	0	0	-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	-
106	Hexachlorobenzene*	YES	Bases	0	0	0	0	0	0	-
107	Hexachlorobutadiene*	YES	Bases	0	0	0	0	0	0	-
108	Hexachlorocyclopentadiene (alpha)	YES	Bases	0	0	0	0	0	0	-
109	Hexachlorocyclohexane (beta)	YES	Bases	0	0	0	0	0	0	-
110	Hexachlorocyclohexane (gamma)	YES	Bases	0	0	0	0	0	0	-
111	Hexachlorocyclopentadiene		Bases	0	0	0	0	0	0	-
112	Hexachlorothiane		Bases	0	0	0	0	0	0	-
113	Indeno(1,2,3-CK)Pyrene*	YES	Bases	0	0	0	0	0	0	-
114	Isoprene		Bases	0	0	0	0	0	0	-
115	Naphthalene		Bases	0	0	0	0	0	0	-
116	Nitrobenzene		Bases	0	0	0	0	0	0	-
117	N-Nitrosodi-N-Propylamine*	YES	Bases	0	0	0	0	0	0	-
118	N-Nitrosodi-N-Methylamine*	YES	Bases	0	0	0	0	0	0	-
119	N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	0	0	0	0	-
120	PCB-1016	YES	Bases	0	0	0	0	0	0	-
121	PCB-1221	YES	Bases	0	0	0	0	0	0	-
122	PCB-1232	YES	Bases	0	0	0	0	0	0	-
123	PCB-1242	YES	Bases	0	0	0	0	0	0	-
124	PCB-1248	YES	Bases	0	0	0	0	0	0	-
125	PCB-1254	YES	Bases	0	0	0	0	0	0	-
126	PCB-1260	YES	Bases	0	0	0	0	0	0	-
127	Phenanthrene		Bases	0	0	0	0	0	0	-
128	Pyrene		Bases	0	0	0	0	0	0	-
129	1,2,4-Trichlorobenzene		Bases	0	0	0	0	0	0	-

1.5	Enter Q _d = wastewater discharge flow from facility (MGD)
2.320844	Q _d = wastewater discharge flow (cfs) (this value is calculating from the MGD)
0	Enter or estimated, Q _{d2} = background stream flow from upstream source (cfs)
0.965	Enter 7Q10, Q _s = background stream flow in cfs above point of discharge
0.72375	Enter or estimated, 1Q10, Q _s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
0	Enter flow from upstream discharge (Q _{d2} + background stream flow in MGD above point of discharge)
6.97	Enter Mean Annual Flow, Q _s = background stream flow in cfs above point of discharge
0	Enter 7Q2, Q _s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	Enter C _d = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q _d	Q _d = residual in-stream flow after discharge
C _d on other sheets	C _d = residual in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
32.6	Enter Background hardness above point of discharge (estimated 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 to a Lake. (This changes the partition coefficients for the metals)

** Using Partition Coefficients

August 25, 2016

Modified: 8/4/09

Freshwater F&W classification										Freshwater Acute (µg/l) Q ₁ = 10:10										Freshwater Chronic (µg/l) Q ₁ = 70:10										Human Health Consumption Fish only (µg/l)			
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (CG2) Daily Max	Max Daily Discharge as reported by Applicant (CG2) Max	Water Quality Criteria (C)			Background from upstream source (CG2) Monthly Ave	RP?	Water Quality Criteria (C)			RP?	Water Quality Criteria (C)			RP?	Carcinogen Q ₁ = Annual Average Non-Carcinogen Q ₁ = 70:10			RP?											
						Water Quality Criteria (C)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit			Water Quality Criteria (C)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit		Water Quality Criteria (C)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit																
1	Antimony			0	0	-	-	-	0	0	-	-	-	3.73E+02	5.29E+02	1.06E+02	No	-	-	-	-												
2	Arsenic	YES	YES	0	15	502.334	777.053	155.411	No	0	1.12097	261.324	369.982	73.996	No	3.03E-01	1.21E+00	2.43E-01	Yes	-	-												
3	Boron			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
4	Cadmium			0	0	2.866	3.760	0.752	No	0	0	0.478	0.676	0.135	No	-	-	-	-	-	-												
5	Chromium Chromium III			0	0	1083.429	1421.294	284.259	No	0	0	140.832	180.531	39.906	No	-	-	-	-	-	-												
6	Chromium Chromium VI			0	0	16.000	20.990	4.198	No	0	0	11.000	15.754	3.115	No	-	-	-	-	-	-												
7	Copper	YES		0	15.5	12.047	15.804	3.161	Yes	0	9.13	8.858	12.541	2.508	Yes	1.30E+03	1.84E+03	3.68E+02	No	-	-												
8	Lead			0	5.81	40.053	52.543	10.509	No	0	0.221	1.561	2.210	0.442	No	-	-	-	-	-	-												
9	Mercury	YES		0	0.019	2.400	3.148	0.630	No	0	0.00753	0.012	0.017	0.003	Yes	4.24E-02	6.01E-02	1.20E-02	No	-	-												
10	Nickel			0	0	359.216	471.236	94.247	No	0	0	39.898	56.487	11.297	No	9.93E+02	1.41E+03	2.81E+02	No	-	-												
11	Selenium			0	0	20.000	26.237	5.247	No	0	0	5.000	7.079	1.416	No	2.43E+03	3.44E+03	6.88E+02	No	-	-												
12	Silver			0	0	0.488	0.614	0.123	No	0	0	-	-	-	-	-	-	-	-	-	-												
13	Thallium			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
14	Zinc	YES		0	162	137.370	180.208	36.042	Yes	0	100	138.493	186.078	39.216	Yes	1.46E+04	2.11E+04	4.22E+03	No	-	-												
15	Cyanide			0	2.8	22.000	28.861	5.772	No	0	0.9	5.200	7.362	1.472	No	9.33E+03	1.32E+04	2.64E+03	No	-	-												
16	Total Phenolic Compounds			0	47	-	-	-	0	0	23	-	-	-	-	-	-	-	-	-	-												
17	Hardness (As CaCO3)			0	62400	-	-	-	0	0	53030	-	-	-	-	-	-	-	-	-	-												
18	Acrossin			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
19	Acrylonitrile	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
20	Aldrin	YES		0	0	3.000	3.936	0.787	No	0	0	1.300	1.841	0.368	No	2.94E-05	1.18E-04	2.35E-05	No	-	-												
21	Benazine	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
22	Bromoform	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
23	Carbon Tetrachloride	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
24	Chlordane	YES		0	0	2.400	3.148	0.630	No	0	0	0.004	0.006	0.001	No	4.73E-04	1.89E-03	3.79E-04	No	-	-												
25	Chlorobenzene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
26	Chlorodibromo-Methane	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
27	Chloroethane			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
28	2-Chloro-Ethylvinyl Ether			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
29	Chloroform	YES		0	4.95	-	-	-	0	1.55	-	-	-	-	-	-	-	-	-	-	-												
30	4,4' - DDD	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
31	4,4' - DDE	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
32	4,4' - DDT	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
33	Dichlorobromo-Methane	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
34	1,1-Dichloroethane			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
35	1,2-Dichloroethane	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
36	Trans-1,2-Dichloro-Ethylene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
37	1,1-Dichloroethylene	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
38	1,2-Dichloropropane			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
39	1,3-Dichloro-Proplyene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
40	Dieldrin	YES		0	0	0.240	0.315	0.063	No	0	0	0.056	0.079	0.016	No	3.12E-05	1.25E-04	2.50E-05	No	-	-												
41	Ethylbenzene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
42	Methyl Bromide			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
43	Methyl Chloride			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
44	Methylene Chloride	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
45	1,1,2,2-Tetrachloro-Ethane	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
46	Tetrachloro-Ethylene	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
47	Toluene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
48	Toxaphene	YES		0	0	0.730	0.958	0.192	No	0	0	0.0002	0.000	0.000	No	1.62E-04	6.48E-04	1.30E-04	No	-	-												
49	Tributyltin (TBT)	YES		0	0	0.460	0.603	0.121	No	0	0	0.072	0.102	0.020	No	-	-	-	-	-	-												
50	1,1,1-Trichloroethane			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
51	1,1,2-Trichloroethane	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
52	Trichloroethylene	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
53	Vinyl Chloride	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
54	p-Chloro-m-Cresol			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
55	2-Chlorophenol			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
56	2,4-Dichlorophenol			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
57	2,4-Dimethylphenol			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
58	4-Dinitro-O-Cresol			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
59	2,4-Dinitrophenol			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
60	4,6-Dinitro-2-methylphenol	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
61	Dioxin (2,3,7,8-TCDD)	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
62	2-Nitrophenol			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
63	4-Nitrophenol			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
64	Pentachlorophenol	YES		0	0	8.723	11.444	2.289	No	0	0	6.683	9.475	1.895	No	1.77E+00	7.08E+00	1.42E+00	No	-	-												
65	Phenol			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
66	2,4,6-Trichlorophenol	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
67	Acanaphthene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
68	Acenaphthylene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
69	Anthracene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
70	Ben[a]pyrene	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
71	Benzo(a)Anthracene	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
72	Benzo(a)Pyrene	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
73	3,4-Benzo-Fluoranthene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
74	Benzo(g,h,i)Perylene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
75	Benzo(k)Fluoranthene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
76	Bis (2-Chloroethoxy) Methane			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
77	Bis (2-Chloroethyl)-Ether	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
78	Bis (2-Chloroisopropyl) Ether			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
79	Bis (2-Ethylhexyl) Phthalate	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
80	4-Bromophenyl Phenyl Ether			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
81	Butyl Benzyl Phthalate			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
82	2-Chloronaphthalene			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
83	4-Chlorophenyl Phenyl Ether			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
84	Chrysene	YES		0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
85	Di-N-Butyl Phthalate			0	0	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-												
86	Di-N-Octyl Phthalate			0	0	-	-	-	0	0	-	-	-	-																			

Permit Number: AL0020141

Monitoring Point: 0011

Stage: Effluent Gross Value

Parameter Name: Total Recoverable Arsenic

Parameter Code: 00978

Monitoring Period	Daily Maximum	Conc. Unit
June 2011	1.8	µg/L
July 2011	3.2	µg/L
August 2011	0	µg/L
September 2011	12	µg/L
October 2011	10	µg/L
November 2011	15	µg/L
December 2011	6	µg/L
January 2012	11	µg/L
February 2012	9.3	µg/L
March 2012	0	µg/L
April 2012	0	µg/L
May 2012	0	µg/L
June 2012	0	µg/L
July 2012	0	µg/L
August 2012	0	µg/L
September 2012	0	µg/L
October 2012	0	µg/L
November 2012	0	µg/L
December 2012	0	µg/L
January 2013	0	µg/L
February 2013	0	µg/L
March 2013	0	µg/L
April 2013	0	µg/L
May 2013	0	µg/L
June 2013	1.2	µg/L
July 2013	0	µg/L
August 2013	0	µg/L
September 2013	0	µg/L
October 2013	0	µg/L
November 2013	0	µg/L
December 2013	0	µg/L
January 2014	0	µg/L
February 2014	0	µg/L
March 2014	0	µg/L
April 2014	0	µg/L
May 2014	0	µg/L
June 2014	0	µg/L
July 2014	0	µg/L
August 2014	0	µg/L
September 2014	0	µg/L
October 2014	0	µg/L
November 2014	0	µg/L
December 2014	0	µg/L
January 2015	0	µg/L
February 2015	0	µg/L
March 2015	0	µg/L
April 2015	0	µg/L
May 2015	0	µg/L
June 2015	0	µg/L
July 2015	0	µg/L
August 2015	0	µg/L
September 2015	0	µg/L

Monitoring Period	Daily Maximum	Conc. Unit
October 2015	0	µg/L
November 2015	0	µg/L
December 2015	0	µg/L
January 2016	0	µg/L
February 2016	0	µg/L
March 2016	0	µg/L
April 2016	0	µg/L
May 2016	0	µg/L
June 2016	0	µg/L
July 2016	0	µg/L

<i>Average</i>	1.12097	µg/L
<i>Maximum</i>	15.0	µg/L

Permit Number: AL0020141

Monitoring Point: 0011

Stage: Effluent Gross Value

Parameter Name: Total Recoverable Lead

Parameter Code: 01114

Monitoring Period	Monthly Average	Conc. Unit
June 2011	0	µg/L
July 2011	0	µg/L
August 2011	0	µg/L
September 2011	0	µg/L
October 2011	0	µg/L
November 2011	0	µg/L
December 2011	0	µg/L
January 2012	0	µg/L
February 2012	0	µg/L
March 2012	0	µg/L
April 2012	0	µg/L
May 2012	0	µg/L
June 2012	5.81	µg/L
July 2012	0	µg/L
August 2012	0	µg/L
September 2012	2	µg/L
October 2012	0	µg/L
November 2012	0	µg/L
December 2012	0	µg/L
January 2013	2.7	µg/L
February 2013	0	µg/L
March 2013	0	µg/L
April 2013	0	µg/L
May 2013	0	µg/L
June 2013	0	µg/L
July 2013	0	µg/L
August 2013	0	µg/L
September 2013	0	µg/L
October 2013	0	µg/L
November 2013	0	µg/L
December 2013	0	µg/L
January 2014	0	µg/L
February 2014	0	µg/L
March 2014	0	µg/L
April 2014	0	µg/L
May 2014	0	µg/L
June 2014	1.15	µg/L
July 2014	0	µg/L
August 2014	0	µg/L
September 2014	0	µg/L
October 2014	0	µg/L
November 2014	0	µg/L
December 2014	0	µg/L
January 2015	0	µg/L
February 2015	0	µg/L
March 2015	0	µg/L
April 2015	0	µg/L
May 2015	0.25	µg/L
June 2015	1.8	µg/L
July 2015	0	µg/L
August 2015	0	µg/L
September 2015	0	µg/L

October 2015	0	µg/L
November 2015	0	µg/L
December 2015	0	µg/L
January 2016	0	µg/L
February 2016	0	µg/L
March 2016	0	µg/L
April 2016	0	µg/L
May 2016	0	µg/L
June 2016	0	µg/L
July 2016	0	µg/L

<i>Average</i>	0.221	µg/L
<i>Maximum</i>	5.81	µg/L

Permit Number: AL0020141

Monitoring Point: 001Q

Stage: Effluent Gross Value

Parameter Name: Total Recoverable Mercury

Parameter Code: 71901

Monitoring Period	Monthly Average	Conc. Unit
August 2011	0.0023	µg/L
September 2011	0.0036	µg/L
December 2011	0.0035	µg/L
March 2012	0.016	µg/L
June 2012	0.0056	µg/L
September 2012	0.0021	µg/L
December 2012	0.0053	µg/L
March 2013	*D	µg/L
June 2013	0.010	µg/L
September 2013	0.0030	µg/L
December 2013	0.016	µg/L
March 2014	0.017	µg/L
June 2014	0.0064	µg/L
September 2014	0.012	µg/L
December 2014	0.019	µg/L
March 2015	0.0058	µg/L
June 2015	0.0012	µg/L
September 2015	0.0010	µg/L
December 2015	0.012	µg/L
March 2016	0.0038	µg/L
June 2016	0.0049	µg/L
<i>Average</i>	0.00753	µg/L
<i>Maximum</i>	0.019	µg/L

*D = Lost Sample/Data Not Available

Waste Load Allocation Summary

Page 1

REQUEST INFORMATION

Request Number: 3308

From: Shanda Torbert In Branch/Section: Municipal
Date Submitted: 2/10/2016 Date Required: 3/11/2016 FUND Code: 605

Receiving Waterbody: Horsetrough Creek Date Permit application received by NPDES program: 1/19/2016

Previous Stream Name:

Facility Name: Ashland WWTP (Name of Discharger-WQ will use to file)

Previous Discharger Name:

River Basin: Tallapoosa Outfall Latitude: 33.27442 (decimal degrees)

*County: Clay Outfall Longitude: -85.81007 (decimal degrees)

Permit Number: AL0020141 Permit Type: Permit Reissuance

Permit Status: Active

Type of Discharger: MUNICIPAL

Do other discharges exist that may impact the model? Yes No

If yes, impacting dischargers names:
Lineville Lagoon

Impacting dischargers permit numbers:
AL0050644

Existing Discharge Design Flow: 1.07 MGD
Proposed Discharge Design Flow: 1.5 MGD

Note: The flow rates given should be those requested for modeling.

Comments included

Yes No

Information Verified By: JMD

Year File Was Created:

Response ID Number: 1551

Lat/Long Method: GPS

12 Digit HUC Code: 031501090102

Use Classification: F&W

Site Visit Completed? Yes No

Date of Site Visit: 2/12/2016

Waterbody Impaired? Yes No

Date of WLA Response: 5/27/2016

Antidegradation Yes No

Approved TMDL?

Yes No

Waterbody Tier Level: Tier I

Use Support Category: 1

Approval Date of TMDL:

Waste Load Allocation Information

Modeled Reach Length: 23.9 Miles Date of Allocation: 5/18/2016

Name of Model Used: SWQM Allocation Type: 2 Seasons

Model Completed by: Jessica Delgado Type of Model Used: Desk-top

Allocation Developed by: Water Quality Branch

Waste Load Allocation Summary

Annual Effluent Limits	Conventional Parameters				Other Parameters							
	Qw	1.5	MGD		Qw	1.5	MGD		Qw	MGD	Qw	MGD
Season	Summer		Season	Winter		Season			Season			
From	May		From	Dec		From			From			
Through	Nov		Through	Apr		Through			Through			
CBOD5			CBOD5	10		CBOD5	24		TP		TP	
NH3-N			NH3-N	2		NH3-N	4		TN		TN	
TKN			TKN			TKN			TSS		TSS	
D.O.			D.O.	6		D.O.	6					

"Monitor Only" Parameters for Effluent:		Parameter	Frequency	Parameter	Frequency
		NO2+NO3-N	Monthly		
		TP	Monthly		
		TKN	Monthly		

Water Quality Characteristics Immediately Upstream of Discharge						
Parameter	Summer			Winter		
	CBODu	3.12	mg/l		3.12	mg/l
NH3-N	0.014	mg/l		0.014	mg/l	
Temperature	30	°C		20	°C	
pH	7	su		7	su	

Hydrology at Discharge Location

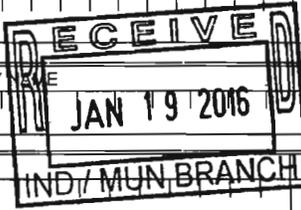
Drainage Area Qualifier	Drainage Area	sq mi	Stream	cfs	Method Used to Calculate
Estimated		4.33			Observation
	Stream 7Q10		0.965		75% of 7Q10
	Stream 1Q10		0.724		
	Stream 7Q2				
	Annual Average		6.97		ADEM Estimate w/USGS Gage Data

Comments and/or Notations -WQ Branch modeling guidelines deem the 7Q10 and 7Q2 flow at headwater to be 0.0 cfs because the drainage area is less than 5 mi². However, time of travel(TOT) study was conducted on Horsetrough Creek in 2000 during low flow critical conditions. Therefore, the measured flows from the TOT study were used for the 7Q10 and 7Q2 flow at headwater.

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION <i>Consolidated Permits Program</i> <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER AL0020141
LABEL ITEMS I. EPA I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION		PLEASE PLACE LABEL IN THIS SPACE	GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.
II. POLLUTANT CHARACTERISTICS INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms .			
SPECIFIC QUESTIONS		Mark "X" YES NO FORM ATTACHED	SPECIFIC QUESTIONS
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S. ? (FORM 2D)
E. Does or will this facility treat, store, or dispose of hazardous wastes ? (FORM 3)		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)
III. NAME OF FACILITY 1 ASHLAND WASTEWATER TREATMENT PLANT			
IV. FACILITY CONTACT A. NAME & TITLE (last, first, & title) B. PHONE (area code & no.) 2 WHEELER, BRENT GENERAL MANAGER (256) 354-4036			
V. FACILITY MAILING ADDRESS A. STREET OR P.O. BOX 3 P.O. BOX 365			
B. CITY OR TOWN 4 ASHLAND		C. STATE AL	D. ZIP CODE 36251
VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER 5 1225 CRAGFORD ROAD			
B. COUNTY 6 CLAY			
C. CITY OR TOWN 6 ASHLAND		D. STATE AL	E. ZIP CODE 36251
F. COUNTY CODE (if known)			



CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)			
A. FIRST		B. SECOND	
C	7	4953	(specify) 49539907 - SEWAGE TREATMENT FACILITY
15	16	17	19
C. THIRD		D. FOURTH	
C	7		(specify)
15	16	17	19

VIII. OPERATOR INFORMATION			
A. NAME			B. Is the name listed in Item VIII-A also the owner?
C	8 WATERWORKS AND SEWER BOARD OF THE CITY OF ASHLAND		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
15	16	55	56
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)			D. PHONE (area code & no.)
F = FEDERAL	M = PUBLIC (other than federal or state)	M	(specify)
S = STATE	O = OTHER (specify)		
P = PRIVATE			
		56	
			A (256) 354-4036
15	16	18	19 21 22 26

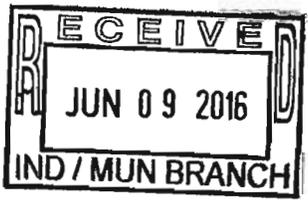
E. STREET OR P.O. BOX	
P.O. BOX 365	
26	55

F. CITY OR TOWN		G. STATE	H. ZIP CODE	IX. INDIAN LAND
B ASHLAND		AL	36251	Is the facility located on Indian lands?
15	16	40 41	42 47 51	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
				52

X. EXISTING ENVIRONMENTAL PERMITS			
A. NPDES (Discharges to Surface Water)		D. PSD (Air Emissions from Proposed Sources)	
C	T	I	
9	N	AL0020141	9 P
15	16	17 18	30
B. UIC (Underground Injection of Fluids)		E. OTHER (specify)	
C	T	I	
9	U		9 (specify)
15	16	17 18	30
C. RCRA (Hazardous Wastes)		E. OTHER (specify)	
C	T	I	
9	R		9 (specify)
15	16	17 18	30

XI. MAP
 Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)
 MUNICIPAL WASTEWATER TREATMENT



XIII. CERTIFICATION (see instructions)		
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		
A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
DAN WORTHY, CHAIRMAN	<i>Dan Worthy</i>	

COMMENTS FOR OFFICIAL USE ONLY	
C	
15	16
	55

FACILITY NAME AND PERMIT NUMBER:
ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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

FORM
2A
NPDES

NPDES FORM 2A APPLICATION OVERVIEW

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.

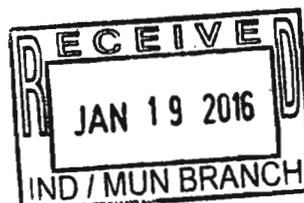
BASIC APPLICATION INFORMATION:

- 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 \geq 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:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. 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)



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BASIC APPLICATION INFORMATION

PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:

All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.

A.1. Facility Information.

Facility name ASHLAND WASTEWATER TREATMENT PLANT

Mailing Address P.O. BOX 365
ASHLAND, AL 36251

Contact person BRENT WHEELER

Title GENERAL MANAGER

Telephone number (256) 354-4036

Facility Address 1225 CRAGFORD ROAD
(not P.O. Box) ASHLAND, AL 36251

A.2. Applicant Information. If the applicant is different from the above, provide the following:

Applicant name WATERWORKS AND SEWER BOARD OF THE CITY OF ASHLAND

Mailing Address P.O. BOX 365
ASHLAND, AL 36251

Contact person BRENT WHEELER

Title GENERAL MANAGER

Telephone number (256) 354-4036

Is the applicant the owner or operator (or both) of the treatment works?

owner operator

Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.

facility applicant

A.3. Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).

NPDES AL 0020141 PSD _____

UIC _____ Other _____

RCRA _____ Other _____

A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

Name	Population Served	Type of Collection System	Ownership
<u>CITY OF ASHLAND, AL</u>	<u>2,000</u>	<u>SEPARATE</u>	<u>MUNICIPAL BOARD</u>
_____	_____	_____	_____
_____	_____	_____	_____
Total population served <u>2,000</u>			

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A.5. Indian Country.

a. Is the treatment works located in Indian Country?

Yes No

b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?

Yes No

A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

a. Design flow rate 1.50 mgd

	<u>Two Years Ago</u>	<u>Last Year</u>	<u>This Year</u>
b. Annual average daily flow rate	<u>0.370</u>	<u>0.425</u>	<u>0.339</u> mgd
c. Maximum daily flow rate	<u>1.174</u>	<u>1.616</u>	<u>0.925</u> mgd

A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each.

Separate sanitary sewer 100 %
 Combined storm and sanitary sewer _____ %

A.8. Discharges and Other Disposal Methods.

a. Does the treatment works discharge effluent to waters of the U.S.? Yes No

If yes, list how many of each of the following types of discharge points the treatment works uses:

- i. Discharges of treated effluent 1
- ii. Discharges of untreated or partially treated effluent 0
- iii. Combined sewer overflow points 0
- iv. Constructed emergency overflows (prior to the headworks) 0
- v. Other _____ 0

b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? Yes No

If yes, provide the following for each surface impoundment:

Location: _____
 Annual average daily volume discharged to surface impoundment(s) _____ mgd
 Is discharge _____ continuous or _____ intermittent?

c. Does the treatment works land-apply treated wastewater? Yes No

If yes, provide the following for each land application site:

Location: _____
 Number of acres: _____
 Annual average daily volume applied to site: _____ Mgd
 Is land application _____ continuous or _____ intermittent?

d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works? Yes No

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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: N/A

Mailing Address: _____

Contact person: _____

Title: _____

Telephone number: _____

For each treatment works that receives this discharge, provide the following:

Name: N/A

Mailing Address: _____

Contact person: _____

Title: _____

Telephone number: _____

If known, provide the NPDES permit number of the treatment works that receives this discharge. _____

Provide the average daily flow rate from the treatment works into the receiving facility. _____ mgd

e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)? _____ Yes No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

Annual daily volume disposed of by this method: _____

Is disposal through this method _____ continuous or _____ intermittent?

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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."

A.9. Description of Outfall.

- a. Outfall number 001

- b. Location ASHLAND 36251
(City or town, if applicable) (Zip Code)
CLAY AL
(County) (State)
33.274469 -85.810109
(Latitude) (Longitude)

- c. Distance from shore (if applicable) _____ N/A ft.

- d. Depth below surface (if applicable) _____ N/A ft.

- e. Average daily flow rate _____ 0.8 mgd

- f. Does this outfall have either an intermittent or a periodic discharge?
_____ Yes No (go to A.9.g.)
If yes, provide the following information:
Number of times per year discharge occurs: _____
Average duration of each discharge: _____
Average flow per discharge: _____ mgd
Months in which discharge occurs: _____

- g. Is outfall equipped with a diffuser? _____ Yes No

A.10. Description of Receiving Waters.

- a. Name of receiving water HORSETROUGH CREEK

- b. Name of watershed (if known) TALLAPOOSA
United States Soil Conservation Service 14-digit watershed code (if known): _____

- c. Name of State Management/River Basin (if known): TALLAPOOSA
United States Geological Survey 8-digit hydrologic cataloging unit code (if known): _____

- d. Critical low flow of receiving stream (if applicable):
acute _____ cfs chronic _____ cfs

- e. Total hardness of receiving stream at critical low flow (if applicable): _____ mg/l of CaCO₃

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 ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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A.11. Description of Treatment.

a. What levels of treatment are provided? Check all that apply.

Primary Secondary
 Advanced Other. Describe: ACTIVATED SLUDGE WWTP WITH SBR

b. Indicate the following removal rates (as applicable):

Design BOD ₅ removal or Design CBOD ₅ removal	<u>85</u>	%
Design SS removal	<u>85</u>	%
Design P removal	<u>0</u>	%
Design N removal	<u>50</u>	%
Other _____	_____	%

c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe.

CHLORINATION FOLLOWED BY DECHLORINATION

If disinfection is by chlorination, is dechlorination used for this outfall? Yes No

d. Does the treatment plant have post aeration? Yes No

A.12. Effluent Testing Information. All 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 samples and must be no more than four and one-half years apart.

Outfall number: 001

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)	6.14	s.u.			
pH (Maximum)	7.48	s.u.			
Flow Rate	1.8	MGD	0.7	MGD	CONTINUOUS
Temperature (Winter)					
Temperature (Summer)					

* For pH please report a minimum and a maximum daily value

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		

CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.

BIOCHEMICAL OXYGEN DEMAND (Report one)	BOD-5						
	CBOD-5	5.6	MG/L	2.9	MG/L	156	
FECAL COLIFORM		14	MPN	4.7	#/100ML	3	COLILERT-18 1
TOTAL SUSPENDED SOLIDS (TSS)		19.0	MG/L	12.6	MG/L	156	

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

FACILITY NAME AND PERMIT NUMBER:
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BASIC APPLICATION INFORMATION

PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).

All applicants with a design flow rate \geq 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).

B.1. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.

_____ 50,000_gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

SEWER REPLACEMENTS AND REPAIRS AS NECESSARY

B.2. Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This 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 the entire area.)

- The area surrounding the treatment plant, including all unit processes.
- 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.
- Each well where wastewater from the treatment plant is injected underground.
- 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.
- Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
- 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. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g. chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.

B.4. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? ___Yes No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: _____

Mailing Address: _____

Telephone Number: _____

Responsibilities of Contractor: _____

B.5. Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted 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 B.5 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.

001

- b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

Yes ___ No

FACILITY NAME AND PERMIT NUMBER:

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BASIC APPLICATION INFORMATION

PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).

All applicants with a design flow rate \geq 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).

B.1. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.

_____ 50,000 gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

SEWER REPLACEMENTS AND REPAIRS AS NECESSARY

B.2. Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This 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 the 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. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g, chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.

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Name: _____

Mailing Address: _____

Telephone Number: _____

Responsibilities of Contractor: _____



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a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

_____ 001

b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

Yes ___ No

FACILITY NAME AND PERMIT NUMBER:

ASHLAND WASTEWATER TREATMENT PLANT AL0020141

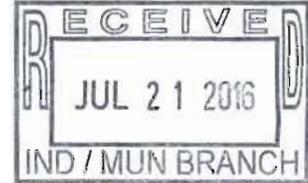
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c. If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

1.7

d. 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.

Implementation Stage	Schedule	Actual Completion
	MM / DD / YYYY	MM / DD / YYYY
- Begin construction	___ / ___ / ___	01 / 01 / 2016
- End construction	11 / 1 / 2016	___ / ___ / ___
- Begin discharge	___ / ___ / ___	___ / ___ / ___
- Attain operational level	___ / ___ / ___	___ / ___ / ___



e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? Yes No

Describe briefly: SEE ATTACHED - CONSTRUCTION UNDERWAY TO CONVERT PLANT TO SEQUENCING BATCH REACTOR

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: 001

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML / MDL
	Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.							
AMMONIA (as N)	1.79	MG/L	0.929	MG/L	3	EPA 350.1	0.1
CHLORINE (TOTAL RESIDUAL, TRC)	0.05	MG/L	0.04	MG/L	3	EPA 330.5	0.017
DISSOLVED OXYGEN	8.29	PPM	6.53	PPM	3	SM 4500 OG-200	
TOTAL KJELDAHL NITROGEN (TKN)	4.1	MG/L	2.8	MG/L	3	EPA 351.2	0.5
NITRATE PLUS NITRITE NITROGEN	38.8	MG/L	35.87	MG/L	3	EPA 353.2	0.225
OIL and GREASE	4.35	MG/L	1.63	MG/L	3	EPA 1664A	1
PHOSPHORUS (Total)	9.42	MG/L	7.98	MG/L	3	EPA 365.4	0.12
TOTAL DISSOLVED SOLIDS (TDS)	488	MG/L	468.3	MG/L	3	SM 2540C	2
OTHER							

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



NELSON & COMPANY, PC

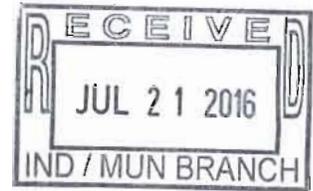
Civil & Environmental Engineering

400 Emery Drive, Suite 300

Birmingham, AL 35244

(205) 989-5690 x101 (205) 989-5672 FAX

E-mail - RNelson@NelsonAndCo.com



Ms. Shanda Torbert
ADEM - Municipal Permits
P.O. Box 301463
Montgomery, AL 36130-1463

July 21, 2016

REF: Ashland, Alabama WWTP Permit Renewal
NPDES AL0020141

Ms. Torbert,

The purpose of this letter is to provide additional information relating to Ashland's WWTP renewal, specifically Part B.5. of Form 2A. Ashland entered into a consent order (13-095-CWP) in May 2013, requiring full compliance by May 2015. Ashland made numerous operational changes and brought the plant into compliance by the deadline required in the consent order, although it was clear a capital project was needed to ensure the plant could stay in compliance in the years ahead. The existing mechanical equipment was nearing the end of its useful life.

A grant and loan application for an upgrade was submitted to USDA Rural Development in July 2013, which was approved in April 2014. Bids were opened for the project in February 2015 and were over budget. A modified USDA Rural Development grant and loan application was submitted in March 2015, and was approved in August 2015. A notice to proceed was issued to the contractor in September 2015, and construction commenced in January 2016 and is currently underway. The project involves upgrading the raw sewage pump station, constructing an influent drum screen, converting the existing aeration basin into a two basin sequencing batch reactor with blowers and coarse bubble diffusers, abandoning the existing clarifiers, installing a bypass for the chlorine contact chamber, replacing the baffle walls of the chlorine contact chamber, installing a new effluent flow meter, replacing the chlorine and sulphur dioxide feed equipment, replacing the backup power generator, and other ancillary items. Enclosed are a couple drawings showing the existing site plan prior to construction and the modified plant. We anticipate this project to be substantially complete by November 2016. Please give me a call if you have any questions.

Sincerely,

NELSON & COMPANY, PC

Civil and Environmental Engineering

Ryan Nelson, PE
Project Engineer

FACILITY NAME AND PERMIT NUMBER:
ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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

BASIC APPLICATION INFORMATION

PART C. CERTIFICATION

All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

Indicate which parts of Form 2A you have completed and are submitting:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Basic Application Information packet | Supplemental Application Information packet: |
| | <input checked="" type="checkbox"/> Part D (Expanded Effluent Testing Data) |
| | <input checked="" type="checkbox"/> Part E (Toxicity Testing: Biomonitoring Data) |
| | <input checked="" type="checkbox"/> Part F (Industrial User Discharges and RCRA/CERCLA Wastes) |
| | <input type="checkbox"/> Part G (Combined Sewer Systems) |

ALL APPLICANTS MUST COMPLETE 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 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 DAN WORTHY, CHAIRMAN
Signature *Dan Worthy*
Telephone number (256) 354-4036
Date signed 1-14-16

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:
 ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		

METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.

ANTIMONY	BMDL	ug/L			BMDL	ug/L			3	EPA 200.7	35
ARSENIC	BMDL	ug/L			BMDL	ug/L			3	EPA 200.7	30
BERYLLIUM	BMDL	ug/L			BMDL	ug/L			3	EPA 200.7	3
CADMIUM	BMDL	ug/L			BMDL	ug/L			3	EPA 200.7	5
CHROMIUM	BMDL	ug/L			BMDL	ug/L			3	EPA 200.7	10
COPPER	15.5	ug/L			9.13	ug/L			3	EPA 200.7	6
LEAD	BDML	ug/L			BDML	ug/L			3	EPA 200.7	27
MERCURY	0.016	ug/L			.0099	ug/L			3	EPA 1631	0.0002
NICKEL	BDML	ug/L			BDML	ug/L			3	EPA 200.7	9.7
SELENIUM	BDML	ug/L			BDML	ug/L			3	EPA 200.7	21.8
SILVER	BDML	ug/L			BDML	ug/L			3	EPA 200.7	4.2
THALLIUM	BDML	ug/L			BDML	ug/L			3	EPA 200.7	27.2
ZINC	162	ug/L			100	ug/L			3	EPA 200.7	13
CYANIDE	.0028	mg/L			.0009	mg/L			3	EPA 335.4	0.006
TOTAL PHENOLIC COMPOUNDS	0.047	mg/L			0.023	mg/L			3	EPA 420.1	0.02
HARDNESS (AS CaCO ₃)	62.4	mg/L			53.03	mg/L			3	SM 2340C	4.3

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.

FACILITY NAME AND PERMIT NUMBER:
 ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
VOLATILE ORGANIC COMPOUNDS.											
ACROLEIN	BMDL	ug/L			BMDL	ug/L			3	EPA 624	43.2
ACRYLONITRILE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	17.2
BENZENE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.46
BROMOFORM	BMDL	ug/L			BMDL	ug/L			3	EPA 624	2.39
CARBON TETRACHLORIDE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.95
CLOROBENZENE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.4
CHLORODIBROMO-METHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	2.2
CHLOROETHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.44
2-CHLORO-ETHYL VINYL ETHER	BMDL	ug/L			BMDL	ug/L			3	EPA 624	3.16
CHLOROFORM	4.95	ug/L			1.65	ug/L			3	EPA 624	1.34
DICHLOROBROMO-METHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.81
1,1-DICHLOROETHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.99
1,2-DICHLOROETHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.44
TRANS-1,2-DICHLORO-ETHYLENE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.56
1,1-DICHLOROETHYLENE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.61
1,2-DICHLOROPROPANE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.49
1,3-DICHLORO-PROPYLENE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.94
ETHYLBENZENE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.43
METHYL BROMIDE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	4.85
METHYL CHLORIDE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	2.72
METHYLENE CHLORIDE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	3.3
1,1,2,2-TETRACHLORO-ETHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.63
TETRACHLORO-ETHYLENE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.97
TOLUENE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.58

FACILITY NAME AND PERMIT NUMBER:
 ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
1,1,1-TRICHLOROETHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.85
1,1,2-TRICHLOROETHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.87
TRICHLOROETHYLENE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	1.53
VINYL CHLORIDE	BMDL	ug/L			BMDL	ug/L			3	EPA 624	2.44

Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer.

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ACID-EXTRACTABLE COMPOUNDS

P-CHLORO-M-CRESOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.48
2-CHLOROPHENOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.15
2,4-DICHLOROPHENOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.21
2,4-DIMETHYLPHENOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.63
4,6-DINITRO-O-CRESOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	13.9
2,4-DINITROPHENOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	13.4
2-NITROPHENOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.68
4-NITROPHENOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	20.5
PENTACHLOROPHENOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	15.9
PHENOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.17
2,4,6-TRICHLOROPHENOL	BMDL	ug/L			BMDL	ug/L			3	EPA 625	4.79

Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer.

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BASE-NEUTRAL COMPOUNDS.

ACENAPHTHENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	7.08
ACENAPHTHYLENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.33
ANTHRACENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.66
BENZIDINE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	34.7
BENZO(A)ANTHRACENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	5.83
BENZO(A)PYRENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.19

FACILITY NAME AND PERMIT NUMBER:
 ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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

Outfall number: _____ (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
3,4 BENZO-FLUORANTHENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.56
BENZO(GHI)PERYLENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.58
BENZO(K)FLUORANTHENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.56
BIS (2-CHLOROETHOXY) METHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.72
BIS (2-CHLOROETHYL)-ETHER	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.26
BIS (2-CHLOROISO-PROPYL) ETHER	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.82
BIS (2-ETHYLHEXYL) PHTHALATE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.71
4-BROMOPHENYL PHENYL ETHER	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.42
BUTYL BENZYL PHTHALATE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.12
2-CHLORONAPHTHALENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.73
4-CHLORPHENYL PHENYL ETHER	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.85
CHRYSENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.19
DI-N-BUTYL PHTHALATE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.18
DI-N-OCTYL PHTHALATE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.58
DIBENZO(A,H) ANTHRACENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.32
1,2-DICHLOROBENZENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	7.97
1,3-DICHLOROBENZENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	7.0
1,4-DICHLOROBENZENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.49
3,3-DICHLOROBENZIDINE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	12.2
DIETHYL PHTHALATE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.9
DIMETHYL PHTHALATE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	7.49
2,4-DINITROTOLUENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.25
2,6-DINITROTOLUENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.68
1,2-DIPHENYLHYDRAZINE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.73

FACILITY NAME AND PERMIT NUMBER:
 ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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

Outfall number: _____ (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/ MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples		
FLUORANTHENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	5.86
FLUORENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	5.47
HEXACHLOROBENZENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.69
HEXACHLOROBUTADIENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.69
HEXACHLOROCYCLO-PENTADIENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	7.9
HEXACHLOROETHANE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	8.93
INDENO(1,2,3-CD)PYRENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.3
ISOPHORONE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.88
NAPHTHALENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	5.82
NITROBENZENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	7.28
N-NITROSODI-N-PROPYLAMINE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.21
N-NITROSODI- METHYLAMINE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	7.66
N-NITROSODI-PHENYLAMINE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.04
PHENANTHRENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.01
PYRENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	6.38
1,2,4-TRICHLOROBENZENE	BMDL	ug/L			BMDL	ug/L			3	EPA 625	9.43

Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

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Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

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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:
 ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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

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.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

20 chronic acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 1 Test number: 2 Test number: 3

a. Test information.

Test species & test method number	C. dubia 1002.0	C. dubia 1002.0	C. dubia 1002.0
Age at initiation of test	8-16 Hours	8-16 Hours	8-16 Hours
Outfall number	001	001	001
Dates sample collected	10/3, 10/5, 10/7/2011	10/8, 10/10, 10/12/2012	12/3, 12/5, 12/7/2012
Date test started	10/4/2011	10/9/2012	10/4/2011
Duration	3 brood	3 brood	3 brood

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013	EPA 821-R-02-013	EPA 821-R-02-013
Edition number and year of publication	4th edition, 2002	4th edition, 2002	4th edition, 2002
Page number(s)	141-196	141-196	141-196

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES	YES	YES
Grab	NO	NO	NO

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO	NO	NO
After disinfection	NO	NO	NO
After dechlorination	YES	YES	YES

FACILITY NAME AND PERMIT NUMBER:
 ASHLAND WASTEWATER TREATMENT PLANT AL0020141

Form Approved 1/14/99
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Test number: 1 Test number: 2 Test number: 3

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent	Final Effluent	Final Effluent
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f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES	YES	YES
Acute toxicity	NO	NO	NO

g. Provide the type of test performed.

Static	NO	NO	NO
Static-renewal	YES	YES	YES
Flow-through	NO	NO	NO

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW	MHRW	MHRW
Receiving water	NO	NO	NO

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES	YES	YES
Salt water	NO	NO	NO

j. Give the percentage effluent used for all concentrations in the test series.

	61%	61%	61%

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES	YES	YES
Salinity	YES	YES	YES
Temperature	YES	YES	YES
Ammonia	YES	YES	YES
Dissolved oxygen	YES	YES	YES

l. Test Results.

Acute:

Percent survival in 100% effluent	N/A %	N/A %	N/A %
LC ₅₀	N/A	N/A	N/A
95% C.I.	N/A %	N/A %	N/A %
Control percent survival	N/A %	N/A %	N/A %
Other (describe)	N/A	N/A	N/A

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Chronic:			
--NOEC Survival	PASS %	PASS %	PASS %
-----C ₂₅ Growth / Reproduction	PASS %	PASS %	PASS %
Control percent survival	100 %	100 %	100 %
Other (describe)			

m. Quality Control/Quality Assurance.			
Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	10/18/2011	10/02/2012	12/04/2012
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

___ Yes No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

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

FACILITY NAME AND PERMIT NUMBER:
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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.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____chronic ____acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 4 Test number: 5 Test number: 6

a. Test information.

Test species & test method number	C. dubia 1002.0	C. dubia 1002.0	C. dubia 1002.0
Age at initiation of test	8-16 Hours	8-16 Hours	8-16 Hours
Outfall number	001	001	001
Dates sample collected	12/10, 12/12, 12/14/2012	10/21, 10/23, 10/25/2013	10/20, 10/22, 10/24/2014
Date test started	12/11/2011	10/22/2012	10/21/2011
Duration	3 brood	3 brood	3 brood

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013	EPA 821-R-02-013	EPA 821-R-02-013
Edition number and year of publication	4th edition, 2002	4th edition, 2002	4th edition, 2002
Page number(s)	141-196	141-196	141-196

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES	YES	YES
Grab	NO	NO	NO

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO	NO	NO
After disinfection	NO	NO	NO
After dechlorination	YES	YES	YES

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Test number: 4 Test number: 5 Test number: 6

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent	Final Effluent	Final Effluent
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f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES	YES	YES
Acute toxicity	NO	NO	NO

g. Provide the type of test performed.

Static	NO	NO	NO
Static-renewal	YES	YES	YES
Flow-through	NO	NO	NO

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW	MHRW	MHRW
Receiving water	NO	NO	NO

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES	YES	YES
Salt water	NO	NO	NO

j. Give the percentage effluent used for all concentrations in the test series.

	61%	61%	61%

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES	YES	YES
Salinity	YES	YES	YES
Temperature	YES	YES	YES
Ammonia	YES	YES	YES
Dissolved oxygen	YES	YES	YES

l. Test Results.

Acute:

Percent survival in 100% effluent	N/A %	N/A %	N/A %
LC ₅₀	N/A	N/A	N/A
95% C.I.	N/A %	N/A %	N/A %
Control percent survival	N/A %	N/A %	N/A %
Other (describe)	N/A	N/A	N/A

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Chronic:			
NOEC Survival	PASS %	PASS %	FAIL %
IC₂₅ Growth / Reproduction	PASS %	PASS %	FAIL %
Control percent survival	100 %	100 %	100 %
Other (describe)			

m. Quality Control/Quality Assurance.			
Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	12/04/2012	10/08/2013	10/07/2014
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

___ Yes No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

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

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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.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____ chronic ____ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 7 Test number: 8 Test number: 9

a. Test information.

Test species & test method number	C. dubia 1002.0	C. dubia 1002.0	C. dubia 1002.0
Age at initiation of test	8-16 Hours	8-16 Hours	8-16 Hours
Outfall number	001	001	001
Dates sample collected	10/27, 10/29, 10/31/2014	12/1, 12/3, 12/5/2014	12/8, 12/10, 12/12/2014
Date test started	10/28/2014	12/8/2014	12/9/2014
Duration	3 brood	3 brood	3 brood

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013	EPA 821-R-02-013	EPA 821-R-02-013
Edition number and year of publication	4th edition, 2002	4th edition, 2002	4th edition, 2002
Page number(s)	141-196	141-196	141-196

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES	YES	YES
Grab	NO	NO	NO

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO	NO	NO
After disinfection	NO	NO	NO
After dechlorination	YES	YES	YES

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Test number: 7 Test number: 8 Test number: 9

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent	Final Effluent	Final Effluent
-----------------------	----------------	----------------	----------------

f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES	YES	YES
Acute toxicity	NO	NO	NO

g. Provide the type of test performed.

Static	NO	NO	NO
Static-renewal	YES	YES	YES
Flow-through	NO	NO	NO

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW	MHRW	MHRW
Receiving water	NO	NO	NO

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES	YES	YES
Salt water	NO	NO	NO

j. Give the percentage effluent used for all concentrations in the test series.

	61%	61%	61%

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES	YES	YES
Salinity	YES	YES	YES
Temperature	YES	YES	YES
Ammonia	YES	YES	YES
Dissolved oxygen	YES	YES	YES

l. Test Results.

Acute:			
Percent survival in 100% effluent	N/A %	N/A %	N/A %
LC ₅₀	N/A	N/A	N/A
95% C.I.	N/A %	N/A %	N/A %
Control percent survival	N/A %	N/A %	N/A %
Other (describe)	N/A	N/A	N/A

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Chronic:			
NOEC Survival	PASS %	PASS %	FAIL %
IC₅₀ Growth / Reproduction	PASS %	PASS %	FAIL %
Control percent survival	100 %	90 %	100 %
Other (describe)			

m. Quality Control/Quality Assurance.			
Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	10/07/2014	12/23/2014	12/23/2014
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

Yes No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

**END OF PART E.
 REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
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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.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____chronic ____acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 10 Test number: 11 Test number: 12

a. Test information.

Test species & test method number	C. dubia 1002.0	C. dubia 1002.0	C. dubia 1002.0
Age at initiation of test	8-16 Hours	8-16 Hours	8-16 Hours
Outfall number	001	001	001
Dates sample collected	4/13, 4/15, 4/17/2015	5/18, 5/20, 5/22/2015	5/25, 5/27, 5/29/2015
Date test started	4/14/2015	5/19/2015	5/26/2015
Duration	3 brood	3 brood	3 brood

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013	EPA 821-R-02-013	EPA 821-R-02-013
Edition number and year of publication	4th edition, 2002	4th edition, 2002	4th edition, 2002
Page number(s)	141-196	141-196	141-196

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES	YES	YES
Grab	NO	NO	NO

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO	NO	NO
After disinfection	NO	NO	NO
After dechlorination	YES	YES	YES

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Test number: 10 Test number: 11 Test number: 12

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent	Final Effluent	Final Effluent
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f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES	YES	YES
Acute toxicity	NO	NO	NO

g. Provide the type of test performed.

Static	NO	NO	NO
Static-renewal	YES	YES	YES
Flow-through	NO	NO	NO

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW	MHRW	MHRW
Receiving water	NO	NO	NO

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES	YES	YES
Salt water	NO	NO	NO

j. Give the percentage effluent used for all concentrations in the test series.

	61%	61%	61%

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES	YES	YES
Salinity	YES	YES	YES
Temperature	YES	YES	YES
Ammonia	YES	YES	YES
Dissolved oxygen	YES	YES	YES

l. Test Results.

Acute:			
Percent survival in 100% effluent	N/A %	N/A %	N/A %
LC ₅₀	N/A	N/A	N/A
95% C.I.	N/A %	N/A %	N/A %
Control percent survival	N/A %	N/A %	N/A %
Other (describe)	N/A	N/A	N/A

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Chronic:			
---NGEE Survival	FAIL %	PASS %	PASS %
-----E₂ Growth / Reproduction	FAIL %	PASS %	PASS %
Control percent survival	100 %	100 %	100 %
Other (describe)			

m. Quality Control/Quality Assurance.			
Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	04/07/2015	05/19/2015	05/19/2015
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

Yes No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

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

FACILITY NAME AND PERMIT NUMBER:
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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.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____ chronic ____ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 13 Test number: 14 Test number: 15

a. Test information.

Test species & test method number	C. dubia 1002.0	C. dubia 1002.0	C. dubia 1002.0
Age at initiation of test	8-16 Hours	8-16 Hours	8-16 Hours
Outfall number	001	001	001
Dates sample collected	7/13, 7/15, 7/17/2015	10/12, 10/14, 10/16/2015	11/2, 11/4, 11/6/2015
Date test started	7/14/2015	10/13/2015	11/3/2015
Duration	3 brood	3 brood	3 brood

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013	EPA 821-R-02-013	EPA 821-R-02-013
Edition number and year of publication	4th edition, 2002	4th edition, 2002	4th edition, 2002
Page number(s)	141-196	141-196	141-196

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES	YES	YES
Grab	NO	NO	NO

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO	NO	NO
After disinfection	NO	NO	NO
After dechlorination	YES	YES	YES

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Test number: 13 Test number: 14 Test number: 15

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent	Final Effluent	Final Effluent
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f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES	YES	YES
Acute toxicity	NO	NO	NO

g. Provide the type of test performed.

Static	NO	NO	NO
Static-renewal	YES	YES	YES
Flow-through	NO	NO	NO

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW	MHRW	MHRW
Receiving water	NO	NO	NO

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES	YES	YES
Salt water	NO	NO	NO

j. Give the percentage effluent used for all concentrations in the test series.

	61%	61%	61%

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES	YES	YES
Salinity	YES	YES	YES
Temperature	YES	YES	YES
Ammonia	YES	YES	YES
Dissolved oxygen	YES	YES	YES

l. Test Results.

Acute:			
Percent survival in 100% effluent	N/A %	N/A %	N/A %
LC ₅₀	N/A	N/A	N/A
95% C.I.	N/A %	N/A %	N/A %
Control percent survival	N/A %	N/A %	N/A %
Other (describe)	N/A	N/A	N/A

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Chronic:			
NOEC Survival	PASS %	PASS %	PASS %
EC₂₀ Growth / Reproduction	PASS %	FAIL %	PASS %
Control percent survival	90 %	100 %	100 %
Other (describe)			

m. Quality Control/Quality Assurance.			
Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	07/07/2015	10/20/2015	11/03/2015
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

Yes No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

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

FACILITY NAME AND PERMIT NUMBER:

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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.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____ chronic ____ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 16 Test number: _____ Test number: _____

a. Test information.

Test species & test method number	C. dubia 1002.0		
Age at initiation of test	8-16 Hours		
Outfall number	001		
Dates sample collected	11/9, 11/11, 11/13/2015		
Date test started	11/10/2015		
Duration	3 brood		

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013		
Edition number and year of publication	4th edition, 2002		
Page number(s)	141-196		

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES		
Grab	NO		

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO		
After disinfection	NO		
After dechlorination	YES		

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Test number: 16 Test number: _____ Test number: _____

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent		
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f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES		
Acute toxicity	NO		

g. Provide the type of test performed.

Static	NO		
Static-renewal	YES		
Flow-through	NO		

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW		
Receiving water	NO		

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES		
Salt water	NO		

j. Give the percentage effluent used for all concentrations in the test series.

	61%		

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES		
Salinity	YES		
Temperature	YES		
Ammonia	YES		
Dissolved oxygen	YES		

l. Test Results.

Acute:			
Percent survival in 100% effluent	N/A %	%	%
LC ₅₀	N/A		
95% C.I.	N/A %	%	%
Control percent survival	N/A %	%	%
Other (describe)	N/A		

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Chronic:

NOEC Survival	PASS %	%	%
EC₅ Growth / Reproduction	PASS %	%	%
Control percent survival	90 %	%	%
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?	YES		
Was reference toxicant test within acceptable bounds?	YES		
What date was reference toxicant test run (MM/DD/YYYY)?	11/03/2015		
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

Yes No If yes, describe: _____

E.4. Summary of Submitted Blomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

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

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PART E. TOXICITY TESTING DATA

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- 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.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____ chronic ____ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 17 Test number: 18 Test number: 19

a. Test information.

Test species & test method number	P. promelas 1000.0	P. promelas 1000.0	P. promelas 1000.0
Age at initiation of test	24-48 Hours	24-48 Hours	24-48 Hours
Outfall number	001	001	001
Dates sample collected	10/3, 10/5, 10/7/2011	10/8, 10/10, 10/12/2012	10/21, 10/23, 10/25/2013
Date test started	10/4/2011	10/9/2012	10/22/2013
Duration	7 Day	7 Day	7 Day

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013	EPA 821-R-02-013	EPA 821-R-02-013
Edition number and year of publication	4th edition, 2002	4th edition, 2002	4th edition, 2002
Page number(s)	53-106	53-106	53-106

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES	YES	YES
Grab	NO	NO	NO

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO	NO	NO
After disinfection	NO	NO	NO
After dechlorination	YES	YES	YES

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Test number: 17 Test number: 18 Test number: 19

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent	Final Effluent	Final Effluent
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f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES	YES	YES
Acute toxicity	NO	NO	NO

g. Provide the type of test performed.

Static	NO	NO	NO
Static-renewal	YES	YES	YES
Flow-through	NO	NO	NO

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW	MHRW	MHRW
Receiving water	NO	NO	NO

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES	YES	YES
Salt water	NO	NO	NO

j. Give the percentage effluent used for all concentrations in the test series.

	61%	61%	61%

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES	YES	YES
Salinity	YES	YES	YES
Temperature	YES	YES	YES
Ammonia	YES	YES	YES
Dissolved oxygen	YES	YES	YES

l. Test Results.

Acute:			
Percent survival in 100% effluent	N/A %	N/A %	N/A %
LC ₅₀	N/A	N/A	N/A
95% C.I.	N/A %	N/A %	N/A %
Control percent survival	N/A %	N/A %	N/A %
Other (describe)	N/A	N/A	N/A

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Chronic:

NOEC Survival	PASS %	PASS %	PASS %
IC₅₀ Growth / Reproduction	PASS %	PASS %	PASS %
Control percent survival	85 %	98 %	98 %
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	10/18/2011	10/02/2012	10/08/2013
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

Yes No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

**END OF PART E.
 REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
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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.

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- 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.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____ chronic ____ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 20 Test number: 21 Test number: 22

a. Test information.

Test species & test method number	P. promelas 1000.0	P. promelas 1000.0	P. promelas 1000.0
Age at initiation of test	24-48 Hours	24-48 Hours	24-48 Hours
Outfall number	001	001	001
Dates sample collected	10/20, 10/22, 10/24/2014	10/27, 10/29, 10/31/2014	12/1, 12/3, 12/5/2014
Date test started	10/21/2014	10/28/2014	12/2/2014
Duration	7 Day	7 Day	7 Day

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013	EPA 821-R-02-013	EPA 821-R-02-013
Edition number and year of publication	4th edition, 2002	4th edition, 2002	4th edition, 2002
Page number(s)	53-106	53-106	53-106

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES	YES	YES
Grab	NO	NO	NO

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO	NO	NO
After disinfection	NO	NO	NO
After dechlorination	YES	YES	YES

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Test number: 20 Test number: 21 Test number: 22

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent	Final Effluent	Final Effluent
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f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES	YES	YES
Acute toxicity	NO	NO	NO

g. Provide the type of test performed.

Static	NO	NO	NO
Static-renewal	YES	YES	YES
Flow-through	NO	NO	NO

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW	MHRW	MHRW
Receiving water	NO	NO	NO

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES	YES	YES
Salt water	NO	NO	NO

j. Give the percentage effluent used for all concentrations in the test series.

	61%	61%	61%

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES	YES	YES
Salinity	YES	YES	YES
Temperature	YES	YES	YES
Ammonia	YES	YES	YES
Dissolved oxygen	YES	YES	YES

l. Test Results.

Acute:			
Percent survival in 100% effluent	N/A %	N/A %	N/A %
LC ₅₀	N/A	N/A	N/A
95% C.I.	N/A %	N/A %	N/A %
Control percent survival	N/A %	N/A %	N/A %
Other (describe)	N/A	N/A	N/A

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Chronic:			
NOEC Survival	FAIL %	PASS %	PASS %
EC₂₅ Growth / Reproduction	FAIL %	PASS %	PASS %
Control percent survival	98 %	100 %	100 %
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	10/07/2014	10/07/2014	12/02/2014
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

Yes No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

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

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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.

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- 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.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____ chronic ____ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 23 Test number: 24 Test number: 25

a. Test information.

Test species & test method number	P. promelas 1000.0	P. promelas 1000.0	P. promelas 1000.0
Age at initiation of test	24-48 Hours	24-48 Hours	24-48 Hours
Outfall number	001	001	001
Dates sample collected	12/8, 12/10, 12/12/2014	4/13, 4/15, 4/16/2015	7/13, 7/15, 7/17/2015
Date test started	12/9/2014	4/14/2015	7/14/2015
Duration	7 Day	7 Day	7 Day

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013	EPA 821-R-02-013	EPA 821-R-02-013
Edition number and year of publication	4th edition, 2002	4th edition, 2002	4th edition, 2002
Page number(s)	53-106	53-106	53-106

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES	YES	YES
Grab	NO	NO	NO

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO	NO	NO
After disinfection	NO	NO	NO
After dechlorination	YES	YES	YES

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Test number: 237

Test number: 24

Test number: 25

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent	Final Effluent	Final Effluent
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f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES	YES	YES
Acute toxicity	NO	NO	NO

g. Provide the type of test performed.

Static	NO	NO	NO
Static-renewal	YES	YES	YES
Flow-through	NO	NO	NO

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW	MHRW	MHRW
Receiving water	NO	NO	NO

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES	YES	YES
Salt water	NO	NO	NO

j. Give the percentage effluent used for all concentrations in the test series.

	61%	61%	61%

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES	YES	YES
Salinity	YES	YES	YES
Temperature	YES	YES	YES
Ammonia	YES	YES	YES
Dissolved oxygen	YES	YES	YES

l. Test Results.

Acute:

Percent survival in 100% effluent	N/A %	N/A %	N/A %
LC ₅₀	N/A	N/A	N/A
95% C.I.	N/A %	N/A %	N/A %
Control percent survival	N/A %	N/A %	N/A %
Other (describe)	N/A	N/A	N/A

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Chronic:

---NOEC Survival	PASS %	PASS %	PASS %
-----IC ₂₅ Growth / Reproduction	PASS %	PASS %	PASS %
Control percent survival	100 %	95 %	95 %
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?	YES	YES	YES
Was reference toxicant test within acceptable bounds?	YES	YES	YES
What date was reference toxicant test run (MM/DD/YYYY)?	12/02/2014	04/07/2015	07/14/2015
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

___ Yes No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

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

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PART E. TOXICITY TESTING DATA

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E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

____ chronic ____ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: 26 Test number: _____ Test number: _____

a. Test information.

Test species & test method number	P. promelas 1000.0		
Age at initiation of test	24-48 Hours		
Outfall number	001		
Dates sample collected	10/12, 10/14, 10/16/2015		
Date test started	10/13/2015		
Duration	7 Day		

b. Give toxicity test methods followed.

Manual title	EPA 821-R-02-013		
Edition number and year of publication	4th edition, 2002		
Page number(s)	53-106		

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

24-Hour composite	YES		
Grab	NO		

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection	NO		
After disinfection	NO		
After dechlorination	YES		

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Test number: 26 Test number: _____ Test number: _____

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:	Final Effluent		
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f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both.

Chronic toxicity	YES		
Acute toxicity	NO		

g. Provide the type of test performed.

Static	NO		
Static-renewal	YES		
Flow-through	NO		

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water	MHRW		
Receiving water	NO		

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water	YES		
Salt water	NO		

j. Give the percentage effluent used for all concentrations in the test series.

	61%		

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH	YES		
Salinity	YES		
Temperature	YES		
Ammonia	YES		
Dissolved oxygen	YES		

l. Test Results.

Acute:

Percent survival in 100% effluent	N/A %	%	%
LC ₅₀	N/A		
95% C.I.	N/A %	%	%
Control percent survival	N/A %	%	%
Other (describe)	N/A		

FACILITY NAME AND PERMIT NUMBER:
 ASHLAND WASTEWATER TREATMENT PLANT AL0020141

Form Approved 1/14/99
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Chronic:

---NGEE Survival	PASS %	%	%
-----G ₂ Growth / Reproduction	PASS %	%	%
Control percent survival	100 %	%	%
Other (describe)			

m. Quality Control/Quality Assurance.

Is reference toxicant data available?	YES		
Was reference toxicant test within acceptable bounds?	YES		
What date was reference toxicant test run (MM/DD/YYYY)?	10/20/2015		
Other (describe)			

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?

___ Yes No If yes, describe: _____

E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date submitted: _____ (MM/DD/YYYY)

Summary of results: (see instructions)

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

FACILITY NAME AND PERMIT NUMBER:
ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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

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 No

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.

a. Number of non-categorical SIUs. 1

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: Koch Foods of Ashland LLC

Mailing Address: 515 Tyson Road
Ashland, AL 36251

F.4. **Industrial Processes.** Describe all of the industrial processes that affect or contribute to the SIU's discharge.

Chicken Processing Plant

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.

Principal product(s): Chicken Meat

Raw material(s): Live Chickens

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.

700,000 gpd (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.

0 gpd (continuous or intermittent)

F.7. **Pretreatment Standards.** Indicate whether the SIU is subject to the following:

a. Local limits Yes No

b. Categorical pretreatment standards Yes No

If subject to categorical pretreatment standards, which category and subcategory?

FACILITY NAME AND PERMIT NUMBER:
ASHLAND WASTEWATER TREATMENT PLANT AL0020141

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F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?
 Yes No If yes, describe each episode.

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? Yes No (go to F.12.)

F.10. Waste Transport. Method by which RCRA waste is received (check all that apply):
 Truck Rail Dedicated Pipe

F.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

<u>EPA Hazardous Waste Number</u>	<u>Amount</u>	<u>Units</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?
 Yes (complete F.13 through F.15.) No
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/RCRA/ or other remedial waste originates (or is expected to originate in the next five years).

F.14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).

F.15. Waste Treatment.

a. Is this waste treated (or will it be treated) prior to entering the treatment works?
 Yes No
If yes, describe the treatment (provide information about the removal efficiency):

b. Is the discharge (or will the discharge be) continuous or intermittent?
 Continuous Intermittent If intermittent, describe discharge schedule.

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

FACILITY NAME AND PERMIT NUMBER:
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- c. Give the average volume per CSO event.
_____ million gallons (_____ actual or _____ approx.)
- d. Give the minimum rainfall that caused a CSO event in the last year.
_____ inches of rainfall

G.5. Description of Receiving Waters.

- a. Name of receiving water: _____
- b. Name of watershed/river/stream system: _____

United States Soil Conservation Service 14-digit watershed code (if known): _____
- c. Name of State Management/River Basin: _____

United States Geological Survey 8-digit hydrologic cataloging unit code (if known): _____

G.6. CSO Operations.

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

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

Additional information, if provided, will appear on the following pages.

SUPPLEMENTARY INFORMATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT APPLICATION FORM 188- Municipal, Semi-Public & Private Facilities

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – MUNICIPAL PERMIT SECTION
POST OFFICE BOX 301463
MONTGOMERY, ALABAMA 36130-1463

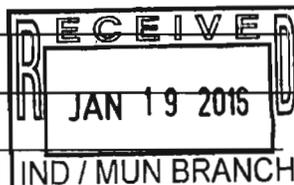
INSTRUCTIONS: APPLICATIONS SHOULD BE TYPED OR PRINTED IN INK AND SUBMITTED TO THE DEPARTMENT. PLEASE CONTINUE ON AN ATTACHED SHEET OF PAPER IF INSUFFICIENT SPACE IS AVAILABLE TO ADDRESS ANY ITEM BELOW. PLEASE MARK N/A IN THE APPROPRIATE BOX WHEN AN ITEM IS NON-APPLICABLE TO THE APPLICANT.

PURPOSE OF THIS APPLICATION

- | | |
|--|---|
| <input type="checkbox"/> INITIAL PERMIT APPLICATION FOR NEW FACILITY | <input type="checkbox"/> INITIAL PERMIT APPLICATION FOR EXISTING FACILITY |
| <input checked="" type="checkbox"/> MODIFICATION OF EXISTING PERMIT | <input type="checkbox"/> REISSUANCE OF EXISTING PERMIT |
| <input type="checkbox"/> REVOCATION & REISSUANCE OF EXISTING PERMIT | |

SECTION A – GENERAL INFORMATION

1. Facility Name: Ashland Wastewater Treatment Plant
- a. Operator Name: Waterworks and Sewer Board of the City of Ashland
- b. Is the operator identified in 1.a, the owner of the facility? Yes No
If no, provide name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.
- c. Name of Permittee* if different than Operator: _____
**Permittee will be responsible for compliance with the conditions of the permit*
2. NPDES Permit Number AL 0020141 (Not applicable if initial permit application)
3. Facility Location: (**Attach a map with location marked; street, route no. or other specific identifier**)
Street: 1225 Cragford Road
City: Ashland County: Clay State: AL Zip: 36251
Facility (Front Gate) Location: Latitude (Deg Min Sec): 33d 15' 51.41" Longitude (Deg. Min Sec): 85d 48' 55.77"
4. Facility Mailing Address (Street or Post Office Box): P.O. Box 365
City: Ashland County: Clay State: AL Zip: 36251
5. Responsible Official (as described on page 7 of this application):
Name and Title: Dan Worthy, Chairman
Address: P.O. Box 365
City: Ashland State: AL Zip: 36251
Phone Number: 256-354-4036
Email Address: (Optional): _____



6. Designated Facility/DMR Contact:

Name and Title: Brent Wheeler, General Manager

Phone Number: 256-276-9264

DMR Email Address (Optional – for receipt of blank DMR Forms): brent.wheeler11@yahoo.com

7. Please complete this section if the Applicant's business entity is a Proprietorship or limited liability Corporation with a responsible official not listed in Item 5.

a) Proprietor:

Name: N/A

Address: _____

City: _____ State: _____ Zip: _____

8. Permit numbers for Applicant's previously issued NPDES Permits and identification of any other State Environmental Permits presently held by the Applicant within the State of Alabama:

<u>Permit Name</u>	<u>Permit Number</u>	<u>Held by</u>
<u>NPDES Discharge Permit</u>	<u>AL0020141</u>	<u>Waterworks and Sewer Board of the City of Ashland</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

9. Identify all Administrative Complaints, Notices of Violation, Directives, or Administrative Orders, Consent Decrees, or Litigation concerning water pollution or other permit violations, if any against the Applicant within the State of Alabama in the past five years (attach additional sheets if necessary):

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
<u>Ashland WWTP</u>	<u>AL0020141</u>	<u>Consent Order</u>	<u>May 15, 2013</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SECTION B – WASTEWATER DISCHARGE INFORMATION

1. List the following historical monthly flow rates recorded for the past five years for each outfall:

<u>Outfall Number</u>	<u>Highest in Last 12 Months MGD</u>	<u>Highest Daily Flow MGD</u>	<u>Average Flow MGD</u>
<u>001</u>	_____	_____	_____
_____	_____	_____	_____

2. Report E-coli (Freshwater) or Enterococci (Coastal Waters) monitoring results for the past five years for each outfall if available:

Outfall Number	Ecoli or Enterococci	Maximum Daily E-coli / Enterococci Discharge (per 100 ml)	Maximum Monthly Average E-Coli / Enterococci Discharge (per 100 ml)	No. of Analyses	Analytical Method	ML/MDL

3. Attached a process flow schematic of the treatment process, including the size of each unit operation.
4. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

Current:	Flow Metering	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
	Sampling Equipment	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Planned:	Flow Metering	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
	Sampling Equipment	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

If so, please attach a schematic diagram of the sewer system indicating the present or future location of this equipment and describe the equipment below:

Continuous Flowmeter at end of chlorine contact chamber just before discharge

Portable auto-samplers at the influent and the effluent

5. Are any wastewater collection or treatment modifications or expansions planned during the next three years that could alter wastewater volumes or characteristics (Note: Permit Modification may be required)? Yes No

Briefly describe these changes and any potential or anticipated effects on the wastewater quality and quantity: (Attach additional sheets if needed.)

Conversion of plant to an SBR with diffused aeration

SECTION C – WASTE STORAGE AND DISPOSAL INFORMATION

Describe the location of all sites used for the storage of solids or liquids that have any potential for accidental discharge to a water of the state, either directly or indirectly via storm sewer, municipal sewer, municipal wastewater treatment plants, or other collection or distribution systems that are located at or operated by the subject existing or proposed NPDES-permitted facility. Indicate the location of any potential release areas and provide a map or detailed narrative description of the areas of concern as an attachment to this application:

Description of Waste	Description of Storage Location
<u>None</u>	

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 (lbs/day)	Disposal Method*
<u>Sludge</u>	<u>100</u>	<u>Land application off site</u>

*Indicate any wastes disposed at an off-site treatment facility and any wastes that are disposed on-site

SECTION D – INDUSTRIAL INDIRECT DISCHARGE CONTRIBUTORS

1. List the existing and proposed industrial source wastewater contributions to the municipal wastewater treatment system (Attach other sheets if necessary)

Company Name	Description of Industrial Wastewater	Existing or Proposed	Flow (MGD)	Subject to SID Permit? Y/N
Koch Foods	Chicken Plant Effluent	Existing	0.7	Y

2. Are industrial wastewater contributions regulated via a locally approved sewer use ordinance ? If so, please attach a copy of the ordinance.

SECTION E – COASTAL ZONE INFORMATION

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County?
 Yes No If yes, then complete items A through M below:

	YES	NO
A. Does the project require new construction?	<input type="checkbox"/>	<input type="checkbox"/>
B. Will the project be a source of new air emissions?	<input type="checkbox"/>	<input type="checkbox"/>
C. Does the project involve dredging and/or filling of a wetland area or water way?	<input type="checkbox"/>	<input type="checkbox"/>
Has the Corps of Engineers (COE) permit been issued?	<input type="checkbox"/>	<input type="checkbox"/>
Corps Project Number _____		
D. Does the project involve wetlands and/or submersed grassbeds?	<input type="checkbox"/>	<input type="checkbox"/>
E. Are oyster reefs located near the project site? (Include a map showing project and discharge location with respect to oyster reefs)	<input type="checkbox"/>	<input type="checkbox"/>
F. Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code R. 335-8-1-.02(bb)?	<input type="checkbox"/>	<input type="checkbox"/>
G. Does the project involve mitigation of shoreline or coastal area erosion?	<input type="checkbox"/>	<input type="checkbox"/>
H. Does the project involve construction on beaches or dunes areas?	<input type="checkbox"/>	<input type="checkbox"/>
I. Will the project interfere with public access to coastal waters?	<input type="checkbox"/>	<input type="checkbox"/>
J. Does the project lie within the 100-year floodplain?	<input type="checkbox"/>	<input type="checkbox"/>
K. Does the project involve the registration, sale, use, or application of pesticides?	<input type="checkbox"/>	<input type="checkbox"/>
L. Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)?	<input type="checkbox"/>	<input type="checkbox"/>
M. Has the applicable permit for groundwater recovery or for groundwater well installation been obtained?	<input type="checkbox"/>	<input type="checkbox"/>

SECTION F – ANTI-DEGRADATION EVALUATION

It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity, if subject to antidegradation requirements. In accordance with 40 CFR 131.12 and Section 335-6-10-.04 of the Alabama Department of Environmental Management Administrative Code, the following information must be provided, if applicable. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991? Yes No
 If "yes", complete question 2 below. If "no", do not complete this section.

2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in question 1? Yes No .

If "no" and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete questions A through F below and also ADEM forms 311 and 312 or 313, whichever is applicable, (attached). Form 312 or 313, whichever is applicable, must be provided for each treatment discharge alternative considered technically viable. If "yes", do not complete this section.

Information required for new or increased discharges to high quality waters:

- A. What environmental or public health problem will the discharger be correcting?
- B. Explain if and to what degree the discharger will be increasing employment as a result of the proposed discharge, either at its existing facility or as the result of the start-up of a related new facility or industry.
- C. Explain if and to what degree the discharge will prevent employment reductions?
- D. Describe any additional state or local taxes that the prospective discharger will be paying.
- E. Describe any public service the discharger will be providing to the community.
- F. Describe the economic or social benefit the discharger will 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 municipal facility depending on the number and types of discharges or outfalls. The EPA application forms are found on the Department's website at <http://www.adem.state.al.us/> and are also listed in Attachment 4.

SECTION H– ENGINEERING REPORT/BMP PLAN REQUIREMENTS

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

Receiving Water(s)	303(d) Segment? (Y / N)	Included in TMDL?* (Y / N)
Horsetrough Creek	N	N

*If a TMDL Compliance Schedule is requested the following should be attached as supporting documentation: (1) Justification for the proposed 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 reported 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 the requested compliance schedule.

Attachment 1 to Supplementary Form ADEM Form 311

Alternatives Analysis

Applicant/Project: _____

All new or expanded discharges (except discharges eligible for coverage under general permits) covered by the NPDES permitting program are subject to the provisions of ADEM's antidegradation policy. Applicants for such discharges to Tier 2 waters are required to demonstrate "... that the proposed discharge is necessary for important economic or social development." As a part of this demonstration, the applicant must complete an evaluation of the discharge alternatives listed below, including a calculation of the total annualized project costs for each technically feasible alternative (using ADEM Form 312 for public-sector projects and ADEM Form 313 for private-sector projects). Alternatives with total annualized project costs that are less than 110% of the total annualized project costs for the Tier 2 discharge proposal are considered viable alternatives.

Alternative	Viable	Non-Viable	Comment
1 Land Application			
2 Pretreatment/Discharge to POTW			
3 Relocation of Discharge			
4 Reuse/Recycle			
5 Process/Treatment Alternatives			
6 On-site/Sub-surface Disposal			
<i>(other project-specific alternatives considered by the applicant; attach additional sheets if necessary)</i>			
7			
8			
9			

Pursuant to ADEM Administrative Code Rule 335-6-3-.04, I certify on behalf of the applicant that I have completed an evaluation of the discharge alternatives identified above, and reached the conclusions indicated.

Signature: N/A
(Professional Engineer)

Date: _____

(Supporting documentation to be attached, referenced, or otherwise handled as appropriate.)

Attachment 2 to Supplementary Form

Calculation of Total Annualized Project Costs for Public-Sector Projects

A. Capital Costs

Capital Cost of Project	\$ _____
Other One-Time Costs of Project (Please List, if any):	
_____	\$ _____
_____	\$ _____
_____	\$ _____
Total Capital Costs (Sum column)	\$ _____ (1)
Portion of Capital Costs to be Paid for with Grant Monies	\$ _____ (2)
Capital Costs to be Financed [Calculate: (1) – (2)]	\$ _____ (3)
Type of Financing (e.g., G.O. bond, revenue bond, bank loan)	_____
Interest Rate for Financing (expressed as decimal)	_____ (i)
Time Period of Financing (in years)	_____ (n)
Annualization Factor = $\frac{i}{(1+i)^n - 1} + i$	_____ (4)
Annualized Capital Cost [Calculate: (3) x (4)]	_____ (5)

B. Operating and Maintenance Costs

Annual Costs of Operation and Maintenance (including but not limited to: monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement.) (Please list below.)

_____	\$ _____
_____	\$ _____
_____	\$ _____
_____	\$ _____
Total Annual O & M Costs (Sum column)	\$ _____ (6)

C. Total Annual Cost of Pollution Control Project

Total Annual Cost of Pollution Control Project [(5) + (6)]	\$ _____ (7)
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Attachment 3 to Supplementary Form ADEM Form 313

Calculation of Total Annualized Project Costs for Private-Sector Projects

Capital Costs to be Financed (Supplied by applicant)	\$	(1)
Interest rate for Financing (Expressed as a decimal)		(i)
Time Period of Financing (Assume 10 years*)		10 years (n)
Annualization Factor = $\frac{i}{(1+i)^{10} - 1} + i$		(2)
Annualized Capital Cost [Calculate: (1) x (2)]	\$	(3)
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	\$	(4)
Total Annual Cost of Pollution Control Project [(3) + (4)]	\$	(5)

* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.

** For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).

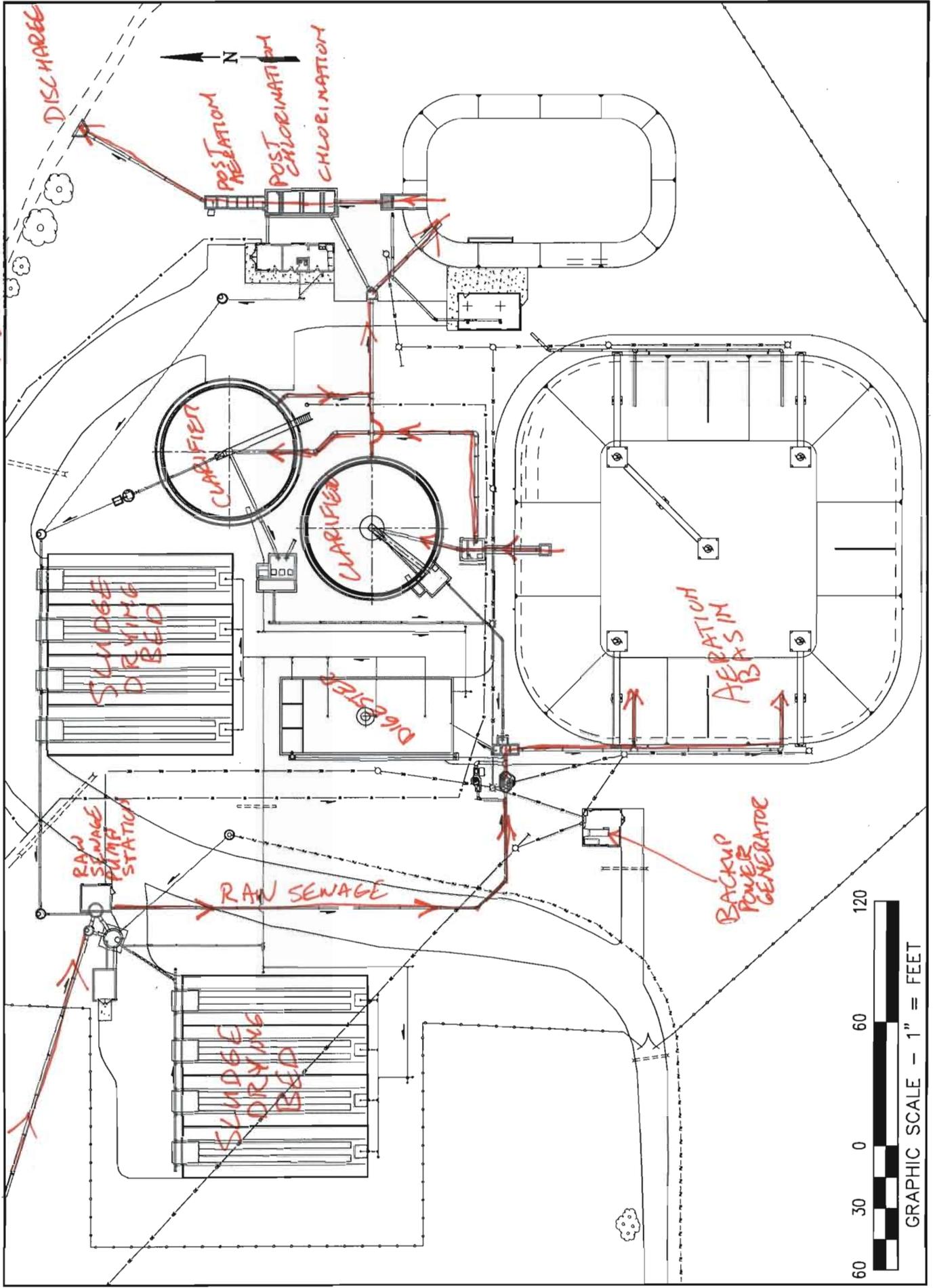
Attachment 4 to Supplementary Form

**NPDES PROGRAM
PERMIT APPLICATION FORMS
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

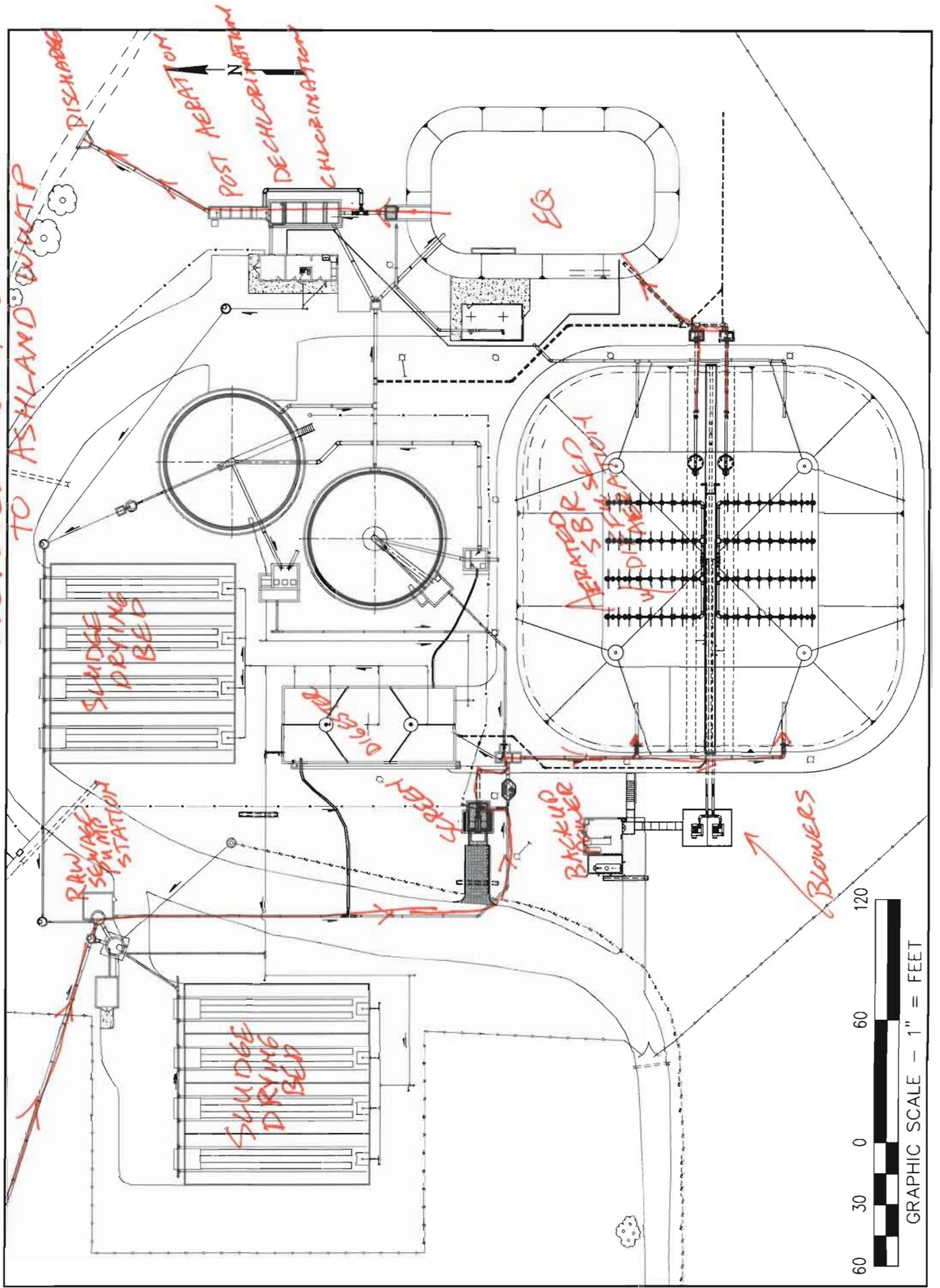
TYPE DISCHARGE	ADEM FORMS	EPA FORMS
New or existing once through non-contact cooling water and/or cooling tower blowdown, and/or sanitary wastewater (non-process wastewater only). Note: POTWs and privately owned domestic treatment works should use Form 2A.	Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal)	Forms 1 and 2E
Existing discharges of process wastewater	Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal)	Forms 1 and 2C
New discharges of process wastewater	Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal)	Forms 1 and 2D
New or existing discharges composed entirely of stormwater meeting the EPA definition of stormwater associated with industrial activity	Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal)	Forms 1 and 2F
New or existing discharges composed of stormwater meeting the EPA definition of stormwater associated with industrial activity, and any other non-stormwater discharges.	Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal)	Forms 1 and 2F and, as appropriate, Forms 2E, 2C, and/or 2D
New or existing Publicly-Owned Treatment Works (POTWs) and Privately-Owned Treatment Works composed of sanitary wastewater	Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal)	Forms 1 and 2A
New or existing land application of process wastewater. Form 2F is required for stormwater runoff from the land application site, if the site is not completely bermed to prevent runoff.	Supplemental Information Form 187 – (Industrial)	Forms 1, 2F, and 2C or 2D, as appropriate
New or existing land application of sanitary wastewater. Form 2F is required for stormwater runoff from the land application site, if the site is not completely bermed to prevent runoff.	Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal)	Forms 1, 2A, and 2F

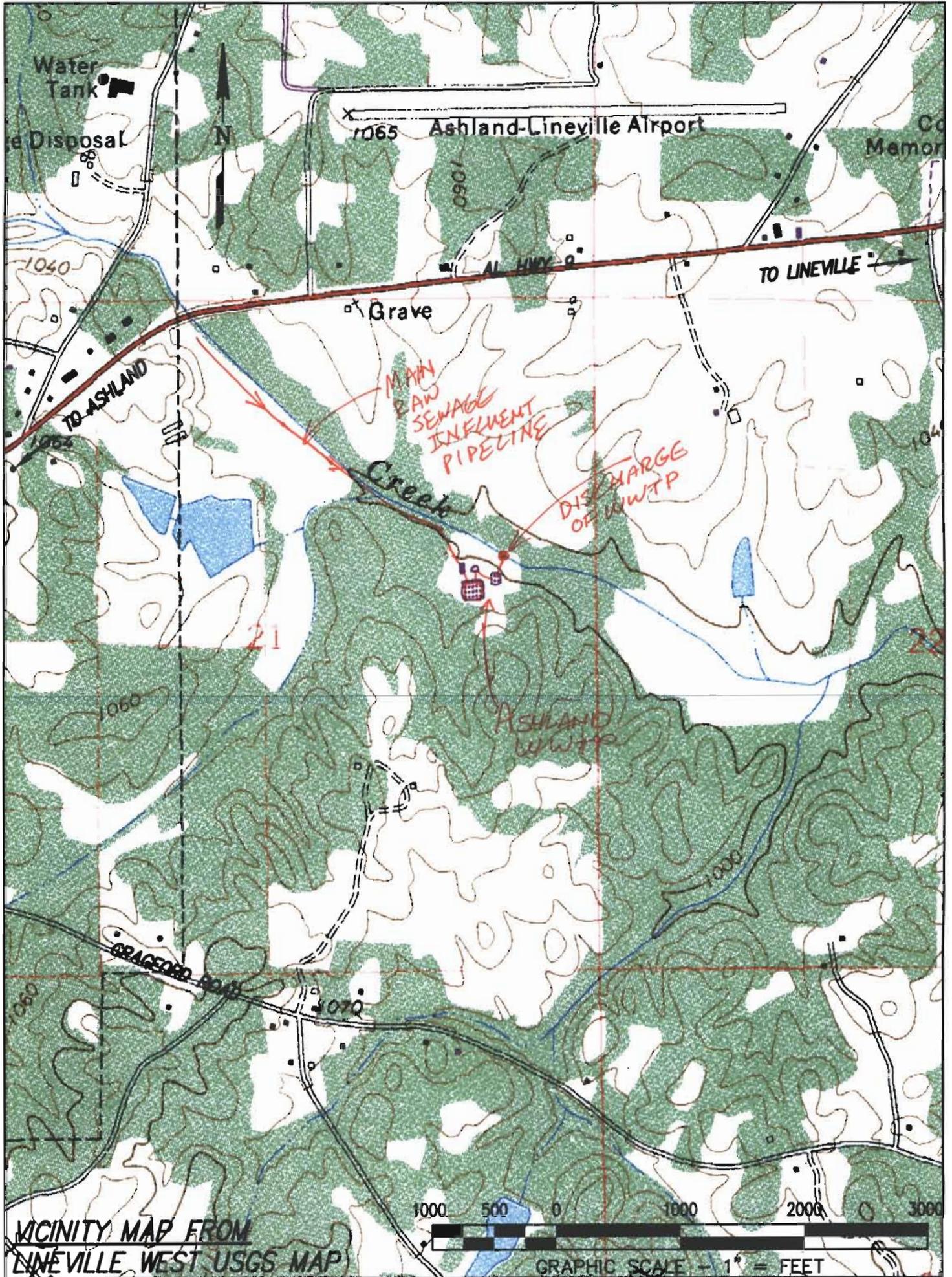
Testing requirements: Test procedures for all analyses shall conform to 40 CFR Part 136 or an alternate method specifically approved by the Department. If more than one method of analysis is approved, then the method having the lowest detection level shall be used.

EXISTING
Ashland WWTW



PROPOSED MODIFICATIONS
TO ASHLAND WWTAP





VICINITY MAP FROM
LINEVILLE WEST USGS MAP

GRAPHIC SCALE - 1" = FEET

Please print or type in the unshaded areas only.

EPA ID Number (copy from Item 1 of Form 1)
AL0020141

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

FORM 2F NPDES		U.S. Environmental Protection Agency Washington, DC 20460 Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity
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Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (list)	B. Latitude			C. Longitude			D. Receiving Water (name)
1	33.00	16.00	28.00	85.00	48.00	40.00	Horsetrough Creek
2	33.00	16.00	28.00	85.00	48.00	38.00	Horsetrough Creek

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
None					

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of 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 units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

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)
1	250 SF	100,000 SF			
2	0 SF	27,000 SF			

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; past and present materials management practices employed 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.

None

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
1	None	4-A
2	None	4-A

V. Nonstormwater Discharges

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
Dan Worthy, Chairman		

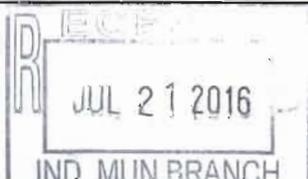
B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

None

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

None



Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1)
AL0020141

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.
Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

Yes (list all such pollutants below)

No (go to Section IX)

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

Yes (list all such pollutants below)

No (go to Section IX)

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

Yes (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

No (go to Section X)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed

X. 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 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.

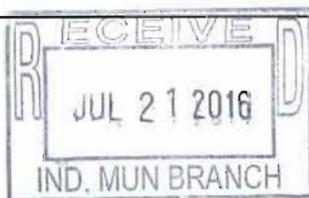
A. Name & Official Title (Type Or Print)

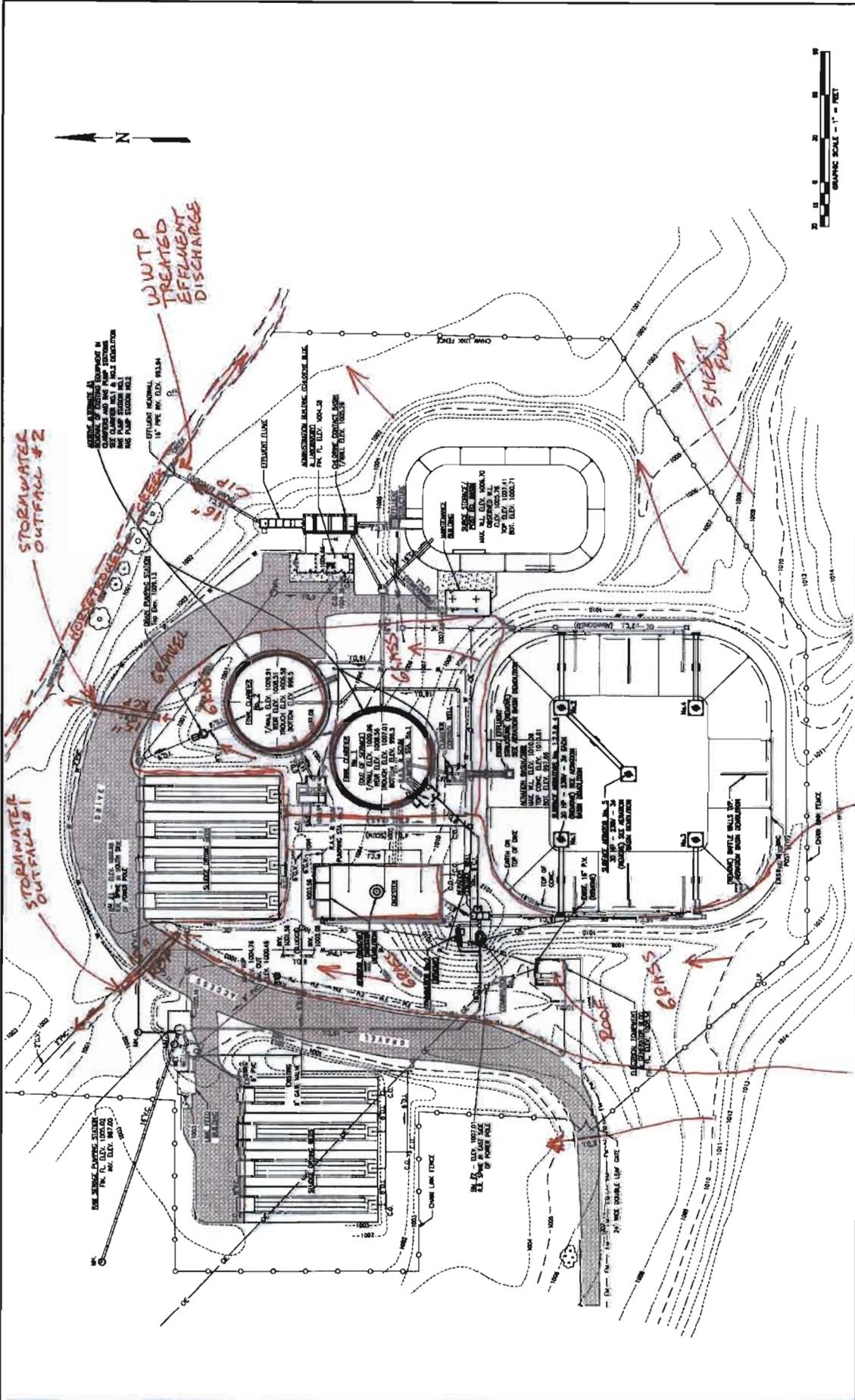
Dan Worthy, Chairman

B. Area Code and Phone No.

C. Signature

D. Date Signed







ASHLAND WATER WORKS & SEWER BOARD

P. O. BOX 365

Brent Wheeler, General Manager
Amy M. Mitchell, Clerk

ASHLAND, ALABAMA 36251
(256)-354-4036

BOARD MEMBERS
Dan Worthy, Chairman
Terrie Grogan, Director
Jerry Boddie, Director

August 10, 2016

Mrs. Shanda Torbett,

It has been brought to our attention that in the past the method of how we reported below detection limits on our DMRs was not consistent. Sometimes we reported *B and sometimes we reported the value of the minimum detection limit even though the test result was below the minimum detection limit, essentially over-reporting the value. We wanted to make you aware of the inconsistency and assure you that we are aware of the issue. We will report any future values that are below the detection limit as *B on the DMRs instead of the actual value. If you have any questions or concerns you can contact me at (256) 276-9264 or by email at brent.wheeler11@yahoo.com.

Sincerely;
Brent Wheeler, General Manager
Of Ashland Waterworks and Sewer Board

B. Wheeler





**ENVIRONMENTAL RESOURCE
ANALYSTS, INC.**

2975 BROWN COURT
AUBURN, AL 36830
334-502-3444
(FAX) 334-502-8888

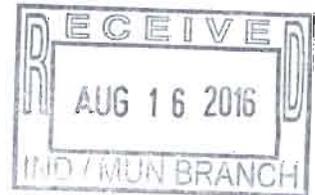
21 Years in Business, and counting
<http://www.eralab.com>



Laboratory Report

Report # 03-0616

Prepared For Ashland
P.O. Box 365
Ashland, AL 36251



Attention: Brent Wheeler

Number of Pages in Report: 40

We appreciate the opportunity to provide testing results for you. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data, please do not hesitate to contact the Lab Manager or the Lab Director at the number listed above.

ADEM Cert Number: 41080

GA Cert Number: 836

NELAC Cert Number: E87542



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CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s) First Subsample Date/Time	Last Subsample Date/Time	Test	Analyt	Date/Time	Meter #	Probe #
--------	---------------------	---	--------------------------	------	--------	-----------	---------	---------

Sample No.	158021-01							
Location	Influent							
Collector	B. SWW 2	1/1h	5-31-16 0700	6-1-16 0600				
Date/Time Sampled	6-1-16	6:45						

Sample No.	158021-02							
Location	Effluent 1st week							
Collector	B. SWW 2	1/1h	5-31-16 0700	6-1-16 0600				
Date/Time Sampled	6-1-16	7:10						

Sample No.	158021-03							
Location	Effluent 1st week							
Collector	B. SWW 2	grab						
Date/Time Sampled	6-1-16	8:00						

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	-01b	None	TSS	BC
-02a	None	CBOD	-02b	None	TSS	BC
-02c	H2SO4	AMMONIA	-02d	H2SO4	Phosphate, TKN	PH 2.0
-02e	H2SO4	NO2-/NO3	-02g	HNO3	Sub-Metals	PH 2.0
-03g	None	E. Coli				

Relinquished By: B. SWW 2 Date/Time: 6-1-16 055 Received By: BG Date/Time: 6/1/16 1055

Relinquished By: Date/Time: Received By: Date/Time:

Relinquished By: Date/Time: Received By: Date/Time:

Received at Lab By: BG Date/Time: 6-1-16 1605 Method of Transfer: ERA Arrival Temp (C): 3.5



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0616

Date Received: 6/3/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158091-02									
Ammonia	2.19	mg N/L		0.1	0.2	EPA 350.1(1993)	06/03/16 06:00	06/06/16 13:14	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/03/16 06:00	06/03/16 14:30	LM
TKN	3.66	mg N/L		0.25	1.25	EPA 351.2(1993)	06/03/16 06:00	06/10/16 13:51	CR
TSS	8.10	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/03/16 06:00	06/06/16 09:40	YA
158091-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/03/16 08:00	06/03/16 13:00	KH

Report No 03-0616

Date Received: 6/3/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158091-01									
CBOD	62.8	mg/L		2	2	SM 5210 B-2001	06/03/16 06:00	06/03/16 14:30	LM
TSS	170	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/03/16 06:00	06/06/16 09:40	YA



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Erin Consuegra

07/15/2016

Erin Consuegra, Technical Manag

Date

This person may be contacted for questions at the number listed above.

All collection and test times are reported as central standard time.
EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.
The results shown relate only to these samples.
These results meet all of the requirements of the NELAC standard.



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

 Standard
 Expedite (Addition Fees Apply)

Date Required _____
 Date Received _____

Client: Ashland Water Works & Sewer Bo
 Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s) First Subsample Date/Time	Last Subsample Date/Time	Test	Analytical Measurements Taken By ERA	Date/Time	Meter #	Probe #

Sample No.	158091-01							
Location	Influent							
Collector	B. SWP 2							
Date/Time Sampled	6-3-16 6:45							

Sample No.	158091-02							
Location	Effluent							
Collector	B. SWP 2							
Date/Time Sampled	6-3-16 7:05							

Flow Rate (MGD)	0.700							
Sample No.	158091-03							
Location	effluent							
Collector	B. SWP 2							
Date/Time Sampled	6-3-16 8:00							

Sample	Preservation	Analysis									
-01a	None	CBOD	-01b	None	TSS	-01c	None	TSS	-01d	None	TSS
-02a	None	CBOD	-02b	None	TSS	-02c	H2SO4	TKN	-02d	H2SO4	TKN
-03e	None	E. Coli									

Relinquished By: B. SWP 2 Date/Time: 6-3-16 11:10 Received By: BG Date/Time: 6-3-16 11:10

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 6-3-16 13:00 Method of Transfer: ERA Arrival Temp (C): 3.5



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0616

Date Received: 6/6/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158172-02									
Ammonia	0.428	mg N/L		0.1	0.2	EPA 350.1(1993)	06/06/16 06:00	06/13/16 12:29	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/06/16 06:00	06/06/16 14:50	NG
TKN	1.32	mg N/L		0.25	1.25	EPA 351.2(1993)	06/06/16 06:00	06/10/16 13:51	CR
TSS	2.83	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/06/16 06:00	06/09/16 11:10	YA
158172-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/06/16 08:15	06/06/16 13:20	KH

Report No 03-0616

Date Received: 6/6/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158172-01									
CBOD	27.5	mg/L		2	2	SM 5210 B-2001	06/06/16 06:00	06/06/16 14:50	NG
TSS	73.3	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/06/16 06:00	06/09/16 11:10	YA



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

06/14/2016

Joe Freda, Lab Director

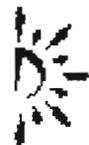
Date

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EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s) First Subsample Date/Time	Last Subsample Date/Time	Test	Analyt	Date/Time	Meter #	Probe #
--------	---------------------	---	--------------------------	------	--------	-----------	---------	---------

Sample No.	158172-01							
Location	Influent							
Collector	B. S. W. L. &	1/h.	6-5-16 0700					
Date/Time Sampled	6-6-16 6:45							

Sample No.	158172-02							
Location	Effluent							
Collector	B. S. W. L. &	1/w.	6-5-16 0700					
Date/Time Sampled	6-6-16 7:10							

Flow Rate (MGD)	0.600							
Sample No.	158172-03							
Location	effluent							
Collector	B. S. W. L. &	grab						
Date/Time Sampled	6-6-16 8:15							

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Sample	Preservation	Analysis
-01a	None	CBOD	-01b	None	TSS			
-02a	None	CBOD	-02b	None	TSS			
-02c	H2SO4	AMMONIA	-02d	H2SO4	TKN			
-03e	None	E. Coi						

Relinquished By: B. S. W. L. & Date/Time: 6-6-16 1115 Received By: BG Date/Time: 6-6-16 1115

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 6-6-16 1320 Method of Transfer: ERA Arrival Temp (C): 3.1



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0616

Date Received: 6/8/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158220-02									
Ammonia	1.88	mg N/L		0.1	0.2	EPA 350.1(1993)	06/08/16 06:00	06/13/16 12:29	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/08/16 06:00	06/08/16 16:45	BEH
TKN	1.50	mg N/L		0.25	1.25	EPA 351.2(1993)	06/08/16 06:00	06/10/16 13:51	CR
TSS	4.82	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/08/16 06:00	06/10/16 12:00	YA
158220-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/08/16 08:00	06/08/16 14:10	KH

Report No 03-0616

Date Received: 6/8/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158220-01									
CBOD	72.0	mg/L		2	2	SM 5210 B-2001	06/08/16 06:00	06/08/16 16:45	BEH
TSS	149	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/08/16 06:00	06/10/16 12:00	YA



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

06/15/2016

Joe Freda, Lab Director

Date

This person may be contacted for questions at the number listed above.

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EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
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ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

 Standard
 Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
 Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s) First Subsample Date/Time	Last Subsample Date/Time	Test	Analytical Measurements Taken By ERA Analyst	Date/Time	Meter #	Probe #
--------	---------------------	---	--------------------------	------	--	-----------	---------	---------

Sample No.	158220-01							
Location	influent							
Collector	B. SWW 1							
Date/Time Sampled	6-8-16 6:45	comp	1/hr	6-7-16 0700	6-8-16 0600			

Sample No.	158220-02							
Location	Effluent							
Collector	B. SWW 2							
Date/Time Sampled	6-8-16 7:10	comp	1/hr	6-7-16 0700	6-8-16 0600			

Flow Rate (MGD) D. 750

Sample No.	158220-03							
Location	effluent							
Collector	B. SWW 2							
Date/Time Sampled	6-8-16 8:00	grab						

Sample	Preservation	Analysis	Preparation CK	Sample	Preservation	Analysis	Preparation CK
-01a	None	CBOD	BG	-01b	None	TSS	BG
-02a	None	CBOD	↓	-02b	None	TSS	
-02c	H2SO4	AMMONIA	pH 8.0 BG	-02d	H2SO4	TKN	pH 8.0
-03e	None	E. Coli					

Relinquished By: B. SWW 2 Date/Time: 6-8-16 1150 Received By: BG Date/Time: 6-8-16 1150

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 6-8-16 1400 Method of Transfer: ERA Arrival Temp (C): 3.6



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0616

Date Received: 6/10/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158287-02									
Ammonia	2.14	mg N/L		0.1	0.2	EPA 350.1(1993)	06/10/16 06:00	06/13/16 13:57	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/10/16 06:00	06/10/16 14:30	BH
TKN	3.22	mg N/L		0.25	1.25	EPA 351.2(1993)	06/10/16 06:00	06/24/16 09:35	CR
TSS	6.53	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/10/16 06:00	06/14/16 15:40	YA
158287-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/10/16 08:00	06/10/16 13:00	KH

Report No 03-0616

Date Received: 6/10/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158287-01									
CBOD	83.7	mg/L		2	2	SM 5210 B-2001	06/10/16 06:00	06/10/16 14:30	BH
TSS	158	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/10/16 06:00	06/14/16 15:40	YA



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

06/27/2016

Joe Freda, Lab Director

Date

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Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	158287-01							
Location	Influent	comp						
Collector	B. SW 2	1/hr	6-9-16 0700	6-10-16 0600				
Date/Time Sampled	6-10-16 6:45							

Sample No.	158287-02							
Location	Effluent	comp						
Collector	B. SW 2	1/hr	6-9-16 0700	6-10-16 0600				
Date/Time Sampled	6-10-16 7:10							

Flow Rate (MGD) 0.7000

Sample No.	158287-03							
Location	effluent	grab						
Collector	B. SW 2							
Date/Time Sampled	6-10-16 8:00							

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BG	-01b	None	TSS	BG
-02a	None	CBOD	↓	-02b	None	TSS	↓
-02c	H2SO4	AMMONIA	pH 2.0	-02d	H2SO4	TKN	pH 2.0
-03e	None	E. Coli	BG				

Relinquished By: B. SW 2 Date/Time: 6-10-16 1110 Received By: BG Date/Time: 6-10-16 1110

Relinquished By: Date/Time: Received By: Date/Time:

Relinquished By: Date/Time: Received By: Date/Time:

Received at Lab By: BG Date/Time: 6-10-16 1255 Method of Transfer: ERA Arrival Temp (C): 3.0



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0616

Date Received: 6/13/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158421-02									
Ammonia	0.263	mg N/L		0.1	0.2	EPA 350.1(1993)	06/13/16 06:00	06/21/16 15:34	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/13/16 06:00	06/13/16 16:30	NG
TKN	0.392	mg N/L	N10	0.25	1.25	EPA 351.2(1993)	06/13/16 06:00	06/24/16 09:35	CR
TSS	2.13	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/13/16 06:00	06/14/16 15:40	YA
158421-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/13/16 08:00	06/13/16 14:40	KH

Report No 03-0616

Date Received: 6/13/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158421-01									
CBOD	29.7	mg/L		2	2	SM 5210 B-2001	06/13/16 06:00	06/13/16 16:30	NG
TSS	50.3	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/13/16 06:00	06/14/16 15:40	YA



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Brent Wheeler
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06/27/2016

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Qualifiers

N10 = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit and should only be relied upon as an estimate.



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Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Date/Time	Meter #	Probe #

Sample No.	158421-01						
Location	influent						
Collector	B SWP 2	comp	1/h	6-12-16 0700	6-13-16 0600		
Date/Time Sampled	6-13-16 6:45						

Sample No.	158421-02						
Location	Effluent						
Collector	B SWP 2	comp	1/h	6-12-16 0700	6-13-16 0600		
Date/Time Sampled	6-13-16 7:10						

Flow Rate (MGD)	0.250						
Sample No.	158421-03						
Location	effluent						
Collector	B SWP 2	grab					
Date/Time Sampled	6-13-16 8:00						

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BG	-01b	None	TSS	BG
-02a	None	CBOD	↓	-02b	None	TSS	↓
-02c	H2SO4	AMMONIA	pH 2.0	-02d	H2SO4	TKN	pH 2.0
-03e	None	E. Coli	BG				

Relinquished By: B SWP 2 Date/Time: 6-13-16 1215 Received By: BG Date/Time: 6-13-16 1215
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 6-13-16 1440 Method of Transfer: ERA Arrival Temp (C): 3.0



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Brent Wheeler
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Report No 03-0616

Date Received: 6/15/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158466-02									
Ammonia	2.83	mg N/L		0.1	0.2	EPA 350.1(1993)	06/15/16 06:00	06/21/16 14:02	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/15/16 06:00	06/15/16 17:00	LM
TKN	1.81	mg N/L		0.25	1.25	EPA 351.2(1993)	06/15/16 06:00	06/24/16 12:16	CR
TSS	4.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/15/16 06:00	06/16/16 16:40	YA
158466-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/15/16 08:00	06/15/16 16:30	AF

Report No 03-0616

Date Received: 6/15/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158466-01									
CBOD	40.6	mg/L		2	2	SM 5210 B-2001	06/15/16 06:00	06/15/16 17:00	LM
TSS	80.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/15/16 06:00	06/16/16 16:40	YA



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Brent Wheeler
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MDL: Method Detection Limit
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06/27/2016

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 Tel. (334) 502-3444 Fax (334) 502-8888

Standard
 Expedite (Addition Fees Apply)
 Date Required

Client: Ashland Water Works & Sewer Bo
 Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	158466-01	comp	1/4	6-14-16 0730	6-15-16 0600
Location	influent				
Collector	BS-DW 8				
Date/Time Sampled	6-15-16 6:45				

Sample No.	158466-02	comp	1/4	6-14-16 0730	6-15-16 0600
Location	Effluent				
Collector	BS-DW 8				
Date/Time Sampled	6-15-16 7:00				

Flow Rate (MGD)	0.200	
Sample No.	158466-03	grab
Location	effluent	
Collector	BS-DW 0	
Date/Time Sampled	6-15-16 8:00	

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	8H	-01b	None	TSS	8H
-02a	None	CBOD	8H	-02b	None	TSS	8H
-02c	H2SO4	AMMONIA	PH=2.20 8H	-02d	H2SO4	TKN	PH=2.20
-03e	None	E. Coli	8H				

Relinquished By: BS-DW 0 Date/Time: 6-15-16 11:15 Received By: BS-DW 1 Date/Time: 6-15-16/11:15

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BS-DW 1 Date/Time: 6-15-16/16:30 Method of Transfer: ERA Arrival Temp (C): 4.2°



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Report No 03-0616

Date Received: 6/17/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158575-02									
Ammonia	2.62	mg N/L		0.1	0.2	EPA 350.1(1993)	06/17/16 06:00	06/21/16 15:34	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/17/16 06:00	06/17/16 15:50	NG
TKN	4.75	mg N/L		0.25	1.25	EPA 351.2(1993)	06/17/16 06:00	06/24/16 12:16	CR
TSS	9.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/17/16 06:00	06/20/16 11:05	YA
158575-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/17/16 08:10	06/17/16 13:50	HW

Report No 03-0616

Date Received: 6/17/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158575-01									
CBOD	66.0	mg/L		2	2	SM 5210 B-2001	06/17/16 06:00	06/17/16 15:50	NG
TSS	160	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/17/16 06:00	06/20/16 11:05	YA



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Standard Expedite (Addition Fees Apply)
Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	158575-01						
Location	Influent						
Collector	BSNVD	1/2 hr	6-16-16 0700	6-17-16 0600			
Date/Time Sampled	6-17-16 6:45						

Sample No.	158575-02						
Location	Effluent						
Collector	BSNVD	1/2 hr	6-16-16 0700	6-17-16 0600			
Date/Time Sampled	6-17-16 7:10						

Flow Rate (MGD) 0.750

Sample No.	158575-03						
Location	effluent						
Collector	BSNVD	grab					
Date/Time Sampled	6-17-16 8:10						

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BS	-01b	None	TSS	BS
-02a	None	CBOD	J	-02b	None	TSS	J
-02c	H2SO4	AMMONIA	PH 2.0 BS	-02d	H2SO4	TKN	PH 2.0
-03e	None	E. Coil					

Relinquished By: BSNVD Date/Time: 6-17-16 1115 Received By: BS Date/Time: 6-17-16 1115

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BS Date/Time: 6-17-16 1300 Method of Transfer: ERA Arrival Temp (C): 3.5



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Brent Wheeler
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Report No 03-0616

Date Received: 6/20/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158672-02									
Ammonia	0.362	mg N/L		0.1	0.2	EPA 350.1(1993)	06/20/16 06:00	06/27/16 13:03	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/20/16 06:00	06/20/16 14:50	LM
TKN	1.74	mg N/L		0.25	1.25	EPA 351.2(1993)	06/20/16 06:00	06/24/16 13:48	CR
TSS	3.50	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/20/16 06:00	06/22/16 10:35	YA
158672-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/20/16 08:00	06/20/16 13:00	KH

Report No 03-0616

Date Received: 6/20/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158672-01									
CBOD	33.5	mg/L		2	2	SM 5210 B-2001	06/20/16 06:00	06/20/16 14:50	LM
TSS	52.7	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/20/16 06:00	06/22/16 10:35	YA



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06/28/2016

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Standard
 Expedite (Addition Fees Apply)
 Date Required

Client: Ashland Water Works & Sewer Bo
 Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s) First Subsample Date/Time	Last Subsample Date/Time	Test	Analytical Measurements Taken By ERA Analyst	Date/Time	Meter #	Probe #
	1/h	6-15-16 0130	6-20-16 0630					
	1/h	6-15-16 0100	6-20-16 0630					

Sample No.	158672-01							
Location	Influent	comp						
Collector	B SW 1							
Date/Time Sampled	6-20-16 6:45							

Sample No.	158672-02							
Location	Effluent	comp						
Collector	B SW 1	1/h						
Date/Time Sampled	6-20-16 7:00							

Flow Rate (MGD) 0.800

Sample No.	158672-03							
Location	effluent	grab						
Collector	B SW 1							
Date/Time Sampled	6-20-16 9:00							

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Sample	Preservation	Analysis
-01a	None	CBOD	-01b	None	TSS	-01b	None	TSS
-02a	None	CBOD	-02b	None	TSS	-02b	None	TSS
-02c	H2SO4	AMMONIA	-02d	H2SO4	TKN	-02d	H2SO4	TKN
-03e	None	E. Coli						

Relinquished By: B SW 1 Date/Time: 6-20-16 1045 Received By: BG Date/Time: 6-20-16 1045

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 6-20-16 1235 Method of Transfer: EAA Arrival Temp (C): 2.8

Received at Lab By: _____ Date/Time: _____ Method of Transfer: _____ Arrival Temp (C): _____



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Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0616

Date Received: 6/22/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158721-02									
Ammonia	2.19	mg N/L		0.1	0.2	EPA 350.1(1993)	06/22/16 07:10	06/27/16 13:03	CR
CBOD	<2.00	mg/L	D	2	2	SM 5210 B-2001	06/22/16 07:10	06/22/16 15:30	LW
TKN	0.871	mg N/L	N10	0.25	1.25	EPA 351.2(1993)	06/22/16 07:10	06/24/16 13:48	CR
TSS	8.07	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/22/16 07:10	06/27/16 14:25	YA
158721-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/22/16 08:00	06/22/16 13:30	AF

Report No 03-0616

Date Received: 6/22/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158721-01									
CBOD	51.9	mg/L	D	2	2	SM 5210 B-2001	06/22/16 06:45	06/22/16 15:30	LW
TSS	61.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/22/16 06:45	06/27/16 14:25	YA



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Ashland, AL 36251

MDL: Method Detection Limit
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07/01/2016

Joe Freda, Lab Director

Date

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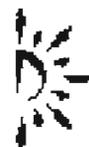
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Qualifiers

- D = Sample duplicate precision was not within method specified limits.
- N10 = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit and should only be relied upon as an estimate.



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel: (334) 502-3444 Fax: (334) 502-8888

Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0616

G or C	Composite Sample(s) or Subsample Frequency	First Subsample Date/Time	Last Subsample Date/Time	Test	Analyt	Date/Time	Meter #	Probe #
	comp	6-21-16	6-22-16					
	comp	6-21-16	6-22-16					

Sample No.	158721-01							
Location	influent							
Collector	B. S. W. J.							
Date/Time Sampled	6-22-16	4:45						

Sample No.	158721-02							
Location	Effluent							
Collector	B. S. W. J.							
Date/Time Sampled	6-22-16	7:10						

Flow Rate (MGD) 0.750

Sample No.	158721-03							
Location	effluent							
Collector	B. S. W. J.							
Date/Time Sampled	6-22-16	8:00						

Sample	Preservation	Analysis	Sample	Preservation	Analysis
-01a	None	CBOD	-01b	None	TSS
-02a	None	CBOD	-02b	None	TSS
-02c	H2SO4	AMMONIA	-02d	H2SO4	TKN
-03e	None	E. Coli			

Relinquished By: B. S. W. J. Date/Time: 6-22-16 1045 Received By: BG Date/Time: 6-22-16 1045

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 6-22-16 1330 Method of Transfer: ERA Arrival Temp (C): 3.6



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Erin Consuegra

07/05/2016

Erin Consuegra, Technical Manag

Date

This person may be contacted for questions at the number listed above.

All collection and test times are reported as central standard time.
EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.
The results shown relate only to these samples.
These results meet all of the requirements of the NELAC standard.



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

 Standard
 Expedite (Addition Fees Apply)

Date Required _____

Client: Ashland Water Works & Sewer Bo
 Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	158774-01	comp	1/hr	6-23-16 0700	6-24-16 0600
Location	influent				
Collector	B. Stuebe				
Date/Time Sampled	6-24-16		4:45		

Sample No.	158774-02	comp	1/hr	6-23-16 0700	6-24-16 0600
Location	Effluent				
Collector	B. Stuebe				
Date/Time Sampled	6-24-16		7:15		

Flow Rate (MGD) 0.750

Sample No.	158774-03	grab			
Location	effluent				
Collector	B. Stuebe				
Date/Time Sampled	6-24-16		8:15		

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BG	-01b	None	TSS	BG
-02a	None	CBOD	↓	-02b	None	TSS	↓
-02c	H2SO4	AMMONIA	pH 2.0	-02d	H2SO4	TKN	pH 2.0
-03e	None	E. Coli	BG				

Relinquished By: B. Stuebe Date/Time: 6-24-16 1200 Received By: BG Date/Time: 6-24-16 1200

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 6-24-16 1410 Method of Transfer: ERA Arrival Temp (C): 2.8



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0616

Date Received: 6/29/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158912-02									
Ammonia	1.07	mg N/L		0.1	0.2	EPA 350.1(1993)	06/29/16 06:00	07/05/16 14:51	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/29/16 06:00	06/29/16 15:45	LM
TKN	1.08	mg N/L	N10	0.25	1.25	EPA 351.2(1993)	06/29/16 06:00	07/08/16 12:17	CR
TSS	7.71	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/29/16 06:00	07/07/16 10:35	YA
158912-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/29/16 08:30	06/29/16 14:10	KH

Report No 03-0616

Date Received: 6/29/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158912-01									
CBOD	27.2	mg/L		2	2	SM 5210 B-2001	06/29/16 06:00	06/29/16 15:45	LM
TSS	22.2	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/29/16 06:00	07/07/16 10:35	YA



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

07/11/2016

Erin Consuegra, Technical Manag Date

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Qualifiers

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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	158912-01							
Location	Influent							
Collector	BSW 2	1/ hr	6-28-16 0700	6-29-16 0600				
Date/Time Sampled	6-29-16 7:00							

Sample No.	158912-02							
Location	Effluent							
Collector	BSW 2	1/ hr	6-28-16 0700	6-29-16 0600				
Date/Time Sampled	6-29-16 7:15							

Flow Rate (MGD) 0.750

Sample No.	158912-03							
Location	effluent							
Collector	BSW 2	grab						
Date/Time Sampled	6-29-16 8:30							

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BS	-01b	None	TSS	BS
-02a	None	CBOD	↓	-02b	None	TSS	↓
-02c	H2SO4	AMMONIA	pH 8.0	-02d	H2SO4	TKN	pH 8.0
-03e	None	E. Coli	BS				

Relinquished By: BSW 2 Date/Time: 6-29-16 1150 Received By: BS Date/Time: 6-29-16 1150

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BS Date/Time: 6-29-16 1410 Method of Transfer: ERA Arrival Temp (C): 3.3



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0616

Date Received: 6/27/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158836-02									
Ammonia	0.266	mg N/L		0.1	0.2	EPA 350.1(1993)	06/27/16 06:00	07/05/16 14:51	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	06/27/16 06:00	06/27/16 15:00	LW
TKN	0.756	mg N/L	N10	0.25	1.25	EPA 351.2(1993)	06/27/16 06:00	07/08/16 12:17	CR
TSS	5.10	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/27/16 06:00	06/30/16 11:00	YA
158836-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/27/16 08:10	06/27/16 14:00	KH

Report No 03-0616

Date Received: 6/27/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158836-01									
CBOD	32.6	mg/L		2	2	SM 5210 B-2001	06/27/16 06:00	06/27/16 15:00	LW
TSS	51.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/27/16 06:00	06/30/16 11:00	YA



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Erin Consuegra

07/08/2016

Erin Consuegra, Technical Manag

Date

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EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
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Qualifiers

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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0616

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	158836-01	comp	1/4 hr	6-26-16 0700	6-27-16 0600
Location	Influent				
Collector	B. SWP 2				
Date/Time Sampled	6-27-16 6:45				

Sample No.	158836-02	comp	1/4 hr	6-26-16 0700	6-27-16 0600
Location	Effluent				
Collector	B. SWP 2				
Date/Time Sampled	6-27-16 7:10				

Flow Rate (MGD)	0.700	
Sample No.	158836-03	grab
Location	effluent	
Collector	B. SWP 2	
Date/Time Sampled	6-27-16 8:10	

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BG	-01b	None	TSS	BG
-02a	None	CBOD	↓	-02b	None	TSS	
-02c	H2SO4	AMMONIA	pH 8.0	-02d	H2SO4	TKN	pH 8.0
-03e	None	E. Coli	BG				

Relinquished By: B. SWP 2 Date/Time: 6-27-16 1150 Received By: BG Date/Time: 6-27-16 1150

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 6-27-16 1400 Method of Transfer: ERA Arrival Temp (C): 3.0



**ENVIRONMENTAL RESOURCE
ANALYSTS, INC.**

**2975 BROWN COURT
AUBURN, AL 36830
334-502-3444
(FAX) 334-502-8888**

**21 Years in Business, and counting
<http://www.eralab.com>**



Laboratory Report

Report # 03-1212

**Prepared For Ashland
P.O. Box 365
Ashland, AL 36251**

Attention: Brent Wheeler

Number of Pages in Report: 44

We appreciate the opportunity to provide testing results for you. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data, please do not hesitate to contact the Lab Manager or the Lab Director at the number listed above.

ADEM Cert Number: 41080

GA Cert Number: 836

NELAC Cert Number: E87542



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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/3/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
120994-02									
Ammonia	0.163	mg N/L	N10	0.1	0.2	EPA 350.1(1993)	12/03/12 06:00	12/07/12 16:33	JAD
CBOD	3.07	mg/L		2	2	SM 5210 B-2001	12/03/12 06:00	12/04/12 15:45	BKS
TKN	<0.728	mg N/L	M2,Z2	0.728	1.25	EPA 351.2(1993)	12/03/12 06:00	12/05/12 13:28	JAD
TSS	12.5	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/03/12 06:00	12/06/12 09:00	BKS
120994-03									
E. Coli	46	MPN		1	1	SM 9223B-2004	12/03/12 10:00	12/03/12 14:45	BLS

Report No 03-1212

Date Received: 12/3/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
120994-01									
CBOD	31.0	mg/L		2	2	SM 5210 B-2001	12/03/12 06:00	12/04/12 15:45	BKS
TSS	64.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/03/12 06:00	12/06/12 09:00	BKS



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Staci Hickman

12/11/2012

Staci Hickman, Lab Manager

Date

This person may be contacted for questions at the number listed above.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.

IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.

State of Florida, NELAC Certification #E87542

Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.

The results shown relate only to these samples.

These results meet all of the requirements of the NELAC standard.

Qualifiers

M2 = Matrix spike recovery was low, but the method control sample recovery was acceptable.

Z2 = The high-level standard digested with the analytical run did not meet the specified criteria of 85-115% as specified. However, all other continuing checks passed for the run, so analytical run is acceptable for reporting.



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard Expedite (Addition Fees Apply)
Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
Project: weekly 03-1512

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample	Last Subsample		Analyst	Date/Time	Meter #

Sample No.	120994-01							
Location	influent							
Collector	B. RWL 2	1/2 hr	12-2-12 0700	12-3-12 0600				
Date/Time Sample	12-3-12 6:45							

Sample No.	120994-02							
Location	Effluent							
Collector	B. RWL 2	1/2 hr	12-2-12 0700	12-3-12 0600				
Date/Time Sample	12-3-12 7:00							

Flow Rate (MGD) 0.600

Sample No.	120994-03							
Location	effluent							
Collector	B. RWL 2	grab						
Date/Time Sample	12-3-12 10:00							

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	WBS	-01b	None	TSS	WBS
-02a	None	CBOD	WBS	-02b	None	TSS	WBS
-02c	H2SO4	AMMONIA	WBS	-02d	H2SO4	TKN	WBS
-03e	None	E. Coli	WBS				

Relinquished By: B. RWL 2 Date/Time: 12-3-12 10:02 Received By: WBS Date/Time: 12/3/12 10:02

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: WBS Date/Time: 12/3/12 14:45 Method of Transfer: EMM Arrival Temp (C): 3.6



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/5/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121082-02									
Ammonia	0.203	mg N/L		0.1	0.2	EPA 350.1(1993)	12/05/12 06:00	12/10/12 13:52	CR
CBOD	2.47	mg/L		2	2	SM 5210 B-2001	12/05/12 06:00	12/05/12 16:30	BKS
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	12/05/12 06:00	12/13/12 09:41	HW
NO2-/NO3	48.4	mg N/L		0.25	0.5	EPA 353.2(1993)	12/05/12 06:00	12/28/12 08:47	CR
TKN	1.74	mg N/L	M2	0.728	1.25	EPA 351.2(1993)	12/05/12 06:00	12/07/12 10:17	JAD
T-Phosphorous	6.49	mg P/L		0.26	0.5	EPA 365.4(1974)	12/05/12 06:00	12/07/12 10:17	JAD
TSS	8.52	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/05/12 06:00	12/07/12 11:30	WB
121082-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/05/12 10:00	12/05/12 16:10	BLS

Report No 03-1212

Date Received: 12/5/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121082-01									
CBOD	18.8	mg/L		2	2	SM 5210 B-2001	12/05/12 06:00	12/05/12 16:30	BKS
TSS	35.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/05/12 06:00	12/07/12 11:30	WB



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Staci Hickman

01/02/2013

Staci Hickman, Lab Manager

Date

This person may be contacted for questions at the number listed above.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
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Qualifiers

M2 = Matrix spike recovery was low, but the method control sample recovery was acceptable.

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

December 17, 2012
Work Order: 1214251

Laboratory Report

Project Name Ashland Effluent

Sample Description 121082
Matrix Wastewater
SAL Sample Number 1214251-01
Date/Time Collected 12/05/12 00:00
Collected by Client
Date/Time Received 12/12/12 12:25

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
------------	-------	-----------	--------	-----	-----	----------	----------	----------

Metals

Arsenic	ug/L	0.93 u 0.00093 u BW	EPA 200.8	5.0	0.93	12/12/12 11:09	12/13/12 16:49	1
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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/10/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121246-02									
Ammonia	6.68	mg N/L		0.1	0.2	EPA 350.1(1993)	12/10/12 06:00	12/14/12 14:20	CR
CBOD	2.15	mg/L		2	2	SM 5210 B-2001	12/10/12 06:00	12/11/12 15:20	PW
TKN	7.94	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	12/10/12 06:00	12/14/12 09:22	CR
TSS	6.50	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/10/12 06:00	12/12/12 10:00	PV
121246-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/10/12 09:00	12/10/12 13:08	BLS

Report No 03-1212

Date Received: 12/10/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121246-01									
CBOD	27.3	mg/L		2	2	SM 5210 B-2001	12/10/12 06:00	12/11/12 15:20	PW
TSS	21.3	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/10/12 06:00	12/12/12 10:00	PV



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Staci Hickman

12/19/2012

Staci Hickman, Lab Manager

Date

This person may be contacted for questions at the number listed above.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.

IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.

State of Florida, NELAC Certification #E87542

Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.

The results shown relate only to these samples.

These results meet all of the requirements of the NELAC standard.

Qualifiers

Z1 = The low-level standard digested with the analytical run did not meet the specified criteria of 85-115% as specified. However, all other continuing checks passed for the run, so analytical run is acceptable for reporting.



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard
 Expedite (Addition Fees Apply)
 Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
Project: 03-1212

G or C	Subsample Frequency	Composite Sample(s)		Analytical Measurements Taken By ERA			
		First Subsample	Last Subsample	Test	Analyst	Date/Time	Meter #

Sample No.	121246-01			12-9-12	12-10-12				
Location	Influent								
Collector	RS DWL 2	1/4 hr		0700	0600				
Date/Time Sample	12-10-12	6:45							

Sample No.	121246-02			12-9-12	12-10-12				
Location	Effluent								
Collector	RS DWL 2	1/4 hr		0700	0600				
Date/Time Sample	12-10-12	7:00							

Flow Rate (MGD) 0.600

Sample No.	121246-03								
Location	effluent								
Collector	RS DWL 2	grab							
Date/Time Sample	12-10-12	9:00							

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	WAS	-01b	None	TSS	WAS
-02a	None	CBOD	WAS	-02b	None	TSS	WAS
-02c	H2SO4	AMMONIA	PH 7.0	-02d	H2SO4	TKN	PH 7.0
-03e	None	E. Coli	WAS				

Relinquished By: RS DWL 2 Date/Time: 12-10-12 11:27 Received By: WAS Date/Time: 12/10/12 11:27

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: WAS Date/Time: 12/10/12 13:08 Method of Transfer: ERA Arrival Temp (C): 3.7



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/12/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121321-02									
Ammonia	2.55	mg N/L		0.1	0.2	EPA 350.1(1993)	12/12/12 06:00	12/14/12 14:20	CR
CBOD	2.96	mg/L		2	2	SM 5210 B-2001	12/12/12 06:00	12/12/12 15:45	BKS
TKN	4.53	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	12/12/12 06:00	12/14/12 09:22	CR
TSS	16.7	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/12/12 06:00	12/14/12 10:00	BKS
121321-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/12/12 09:30	12/12/12 14:50	BLS

Report No 03-1212

Date Received: 12/12/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121321-01									
CBOD	27.6	mg/L		2	2	SM 5210 B-2001	12/12/12 06:00	12/12/12 15:45	BKS
TSS	37.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/12/12 06:00	12/14/12 10:00	BKS



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard Expedite (Addition Fees Apply)
Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
Project: 03-1212

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample	Last Subsample		Date/Time	Meter #	Probe #

Sample No.	121321-01							
Location	influent							
Collector	B D W L	1/4	12-11-12 0700	12-12-12 0600				
Date/Time Sample	12-12-12 6:45							

Sample No.	121321-02							
Location	Effluent							
Collector	B D W L	1/4	12-11-12 0700	12-12-12 0600				
Date/Time Sample	12-12-12 7:00							

Flow Rate (MGD) 0.650

Sample No.	121321-03							
Location	effluent	grab						
Collector	B D W L							
Date/Time Sample	12-12-12 9:30							

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	WB	-01b	None	TSS	WB
-02a	None	CBOD	WB	-02b	None	TSS	WB
-02c	H2SO4	AMMONIA	PH 5.0 WB	-02d	H2SO4	TKN	PH 5.0 WB
-03e	None	E. Coli	WB				

Relinquished By: B D W L Date/Time: 12-12-12 12:15 Received By: WB Date/Time: 12/12/12 12:15

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: WB Date/Time: 12/12/12 14:50 Method of Transfer: ET4 Arrival Temp (C): 3.8



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/14/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121365-02									
Ammonia	6.19	mg N/L		0.1	0.2	EPA 350.1(1993)	12/14/12 06:00	12/18/12 11:13	CR
CBOD	3.52	mg/L		2	2	SM 5210 B-2001	12/14/12 06:00	12/14/12 15:00	PW
TKN	6.54	mg N/L	Q1	0.728	1.25	EPA 351.2(1993)	12/14/12 06:00	12/19/12 11:02	CR
TSS	25.4	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/14/12 06:00	12/17/12 10:30	BKS
121365-03									
E. Coli	3	MPN		1	1	SM 9223B-2004	12/14/12 09:30	12/14/12 13:15	BLS

Report No 03-1212

Date Received: 12/14/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121365-01									
CBOD	35.2	mg/L		2	2	SM 5210 B-2001	12/14/12 06:00	12/14/12 15:00	PW
TSS	109	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/14/12 06:00	12/17/12 10:30	BKS



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Staci Hickman

12/21/2012

Staci Hickman, Lab Manager

Date

This person may be contacted for questions at the number listed above.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.

IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.

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The results shown relate only to these samples.

These results meet all of the requirements of the NELAC standard.

Qualifiers

Q1 = Sample duplicate precision did not fall within laboratory specified limits, but all other QA/QC for the run met run criteria.

CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

<input type="checkbox"/>	<input type="checkbox"/>
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Standard Expedite (Addition Fees Apply)
 Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
 Project: 03-1212

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample	Last Subsample		Analyst	Date/Time	Meter #

Sample No.	121365-01							
Location	Influent	comp	1/yr	12-13-12	12-14-12			
Collector	B SWL 2			0700	0600			
Date/Time Sampl	12-14-12							

Sample No.	121365-02							
Location	Effluent	comp	1/yr	12-13-12	12-14-12			
Collector	B SWL 2			0700	0600			
Date/Time Sampl	12-14-12							

Flow Rate (MGD) 0.600

Sample No.	121365-03							
Location	effluent	grab						
Collector	B SWL 2							
Date/Time Sampl	12-14-12							

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Presevation CK
-01a	None	CBOD	-01b	None	TSS	<u>PL</u>
-02a	None	CBOD	-02b	None	TSS	<u>PL</u>
-02c	H2SO4	AMMONIA	-02d	H2SO4	TKN	<u>PH=2.0</u>
-03e	None	E. Coli				

Relinquished By: B SWL 2 Date/Time: 12-14-12 11:35 Received By: PL Date/Time: 12-14-12 11:35
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: PL Date/Time: 12-14-12 11:35 Method of Transfer: ERA Arrival Temp (C): 42



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/17/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121419-02									
Ammonia	6.51	mg N/L		0.1	0.2	EPA 350.1(1993)	12/17/12 06:00	12/20/12 11:45	CR
CBOD	2.15	mg/L		2	2	SM 5210 B-2001	12/17/12 06:00	12/18/12 16:00	PW
TKN	4.24	mg N/L	Q1	0.728	1.25	EPA 351.2(1993)	12/17/12 06:00	12/19/12 11:02	CR
TSS	10.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/17/12 06:00	12/19/12 15:00	BKS
121419-03									
E. Coli	2	MPN		1	1	SM 9223B-2004	12/17/12 10:00	12/17/12 13:30	BLS

Report No 03-1212

Date Received: 12/17/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121419-01									
CBOD	13.4	mg/L		2	2	SM 5210 B-2001	12/17/12 06:00	12/18/12 16:00	PW
TSS	26.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/17/12 06:00	12/19/12 15:00	BKS



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Staci Hickman

12/27/2012

Staci Hickman, Lab Manager

Date

This person may be contacted for questions at the number listed above.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.

IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.

State of Florida, NELAC Certification #E87542

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Qualifiers

Q1 = Sample duplicate precision did not fall within laboratory specified limits, but all other QA/QC for the run met run criteria.

CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

<input type="checkbox"/>	<input type="checkbox"/>
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Standard
 Expedite (Addition Fees Apply)
 Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
 Project: 03-1212

Sample No.	Location	Collector	Date/Time Sampl	Composite Sample(s)	Test	Analytical Measurements Taken By ERA		
						Subsample Frequency	First Subsample	Last Subsample

121419-01	Influent			12-16-12 0700	12-17-12 0600							
		BSWWS	12-17-12 6:45	1/1 hr								

121419-02	Effluent			12-16-12 0700	12-17-12 0600							
		BSWWS	12-17-12 7:00	1/1 hr								

Flow Rate (MGD) 0.600

121419-03	effluent											
		BSWWS	12-17-12 10:00	grab								

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	WS	-01b	None	TSS	WS
-02a	None	CBOD	WS	-02b	None	TSS	WS
-02c	H2SO4	AMMONIA	PH=7.0 WS	-02d	H2SO4	TKN	PH=7.0 WS
-03e	None	E. Coli					

Relinquished By: BSWWS Date/Time: 12-17-12 11:25 Received By: WS Date/Time: 12/17/12 11:25

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: WS Date/Time: 12/17/12 13:30 Method of Transfer: ERA Arrival Temp (C): 3.0



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/19/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121492-02									
Ammonia	4.64	mg N/L		0.1	0.2	EPA 350.1(1993)	12/19/12 06:00	12/20/12 11:45	CR
CBOD	2.55	mg/L		2	2	SM 5210 B-2001	12/19/12 06:00	12/19/12 16:00	PW
TKN	<0.728	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	12/19/12 06:00	12/28/12 13:09	CR
TSS	17.3	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/19/12 06:00	12/21/12 08:45	WB
121492-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/19/12 10:00	12/19/12 16:55	BLS

Report No 03-1212

Date Received: 12/19/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121492-01									
CBOD	27.3	mg/L		2	2	SM 5210 B-2001	12/19/12 06:00	12/19/12 16:00	PW
TSS	49.1	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/19/12 06:00	12/21/12 08:45	WB



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Staci Hickman

01/07/2013

Staci Hickman, Lab Manager

Date

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EPA- Methods for Chemical Analysis of Water and Wastes, 1994.

IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.

State of Florida, NELAC Certification #E87542

Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.

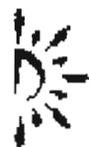
The results shown relate only to these samples.

These results meet all of the requirements of the NELAC standard.

Qualifiers

Z1 = The low-level standard digested with the analytical run did not meet the specified criteria of 85-115% as specified. However, all other continuing checks passed for the run, so analytical run is acceptable for reporting.

CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

Standard Expedite (Addition Fees Apply)
 Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
 Project: 03-1212

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample	Last Subsample		Analyst	Date/Time	Meter #

Sample No.	121492-01							
Location	influent							
Collector	BSW 2	1/ hr	12-18-12 0700	12-19-12 0600				
Date/Time Sample	12-19-12 6:45							

Sample No.	121492-02							
Location	Effluent							
Collector	BSW 2	1/ hr	12-18-12 0700	12-19-12 0600				
Date/Time Sample	12-19-12 1:00							

Flow Rate (MGD) 0.600

Sample No.	121492-03							
Location	effluent							
Collector	BSW 2	grab						
Date/Time Sample	12-19-12 10:00							

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	WB	-01b	None	TSS	WB
-02a	None	CBOD	WB	-02b	None	TSS	WB
-02c	H2SO4	AMMONIA	WB	-02d	H2SO4	TKN	PHC 2.0
-03e	None	E. Coil					

Relinquished By: BSW 2 Date/Time: 12-19-12 11:55 Received By: WB Date/Time: 12/19/12 11:55

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: WB Date/Time: 12/19/12 16:55 Method of Transfer: ERA Arrival Temp (C): 3.2



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/21/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121607-02									
Ammonia	1.77	mg N/L		0.1	0.2	EPA 350.1(1993)	12/21/12 06:00	01/03/13 12:17	CR
CBOD	4.11	mg/L		2	2	SM 5210 B-2001	12/21/12 06:00	12/21/12 14:45	ES
TKN	2.51	mg N/L	Z1,M2	0.728	1.25	EPA 351.2(1993)	12/21/12 06:00	12/28/12 15:06	CR
TSS	12.2	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/21/12 06:00	12/26/12 09:00	BKS
121607-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/21/12 10:00	12/21/12 13:45	BLS

Report No 03-1212

Date Received: 12/21/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121607-01									
CBOD	22.4	mg/L		2	2	SM 5210 B-2001	12/21/12 06:00	12/21/12 14:45	ES
TSS	33.3	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/21/12 06:00	12/26/12 09:00	BKS



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

01/07/2013

Staci Hickman, Lab Manager

Date

This person may be contacted for questions at the number listed above.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.
The results shown relate only to these samples.
These results meet all of the requirements of the NELAC standard.

Qualifiers

- M2 = Matrix spike recovery was low, but the method control sample recovery was acceptable.
Z1 = The low-level standard digested with the analytical run did not meet the specified criteria of 85-115% as specified. However, all other continuing checks passed for the run, so analytical run is acceptable for reporting.

CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

Standard
 Expedite (Addition Fees Apply)
 Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
 Project: 03-1212

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample	Last Subsample		Date/Time	Meter #	Probe #

Sample No.	121607-01							
Location	Influent							
Collector	B. D. L. Q.	1/4						
Date/Time Sample	12-20-12 6:45							
Sample No.	121607-02							
Location	Effluent	1/4						
Collector	B. D. L. Q.							
Date/Time Sample	12/21/12 7:00							

Flow Rate (MGD) 0.750

Sample No.	121607-03							
Location	effluent							
Collector	B. D. L. Q.	grab						
Date/Time Sample	12/21/12 13:00							

Sample	Preservation	Analysis									
-01a	None	CBOD	-01b	None	TSS	-01c	None	TSS	-01d	None	TSS
-02a	None	CBOD	-02b	None	TSS	-02c	None	TSS	-02d	None	TKN
-02c	H2SO4	AMMONIA	-02d	H2SO4	TKN						
-03e	None	E. Coli									

Relinquished By: B. D. L. Q. Date/Time: 12-21-12 1135 Received By: [Signature] Date/Time: 12-21-12 1135
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: [Signature] Date/Time: 12-21-12 / 1345 Method of Transfer: EKA Arrival Temp (C): 37.0



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/24/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121681-02									
Ammonia	0.207	mg N/L		0.1	0.2	EPA 350.1(1993)	12/24/12 06:00	01/03/13 12:17	CR
CBOD	2.06	mg/L		2	2	SM 5210 B-2001	12/24/12 06:00	12/24/12 14:00	PV
TKN	<0.728	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	12/24/12 06:00	12/31/12 09:00	CR
TSS	10.4	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/24/12 06:00	12/28/12 08:30	BKS
121681-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/24/12 09:30	12/24/12 13:50	BLS

Report No 03-1212

Date Received: 12/24/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121681-01									
CBOD	76.2	mg/L		2	2	SM 5210 B-2001	12/24/12 06:00	12/24/12 14:00	PV
TSS	110	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/24/12 06:00	12/28/12 08:30	BKS



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Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

01/07/2013

Staci Hickman, Lab Manager

Date

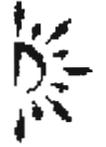
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Qualifiers

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CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

Standard Expedite (Addition Fees Apply)
 Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
 Project: 03-1212

G or C	Composite Sample(s) or Subsample Frequency	First Subsample	Last Subsample	Test	Analytical Measurements Taken By ERA		
					Analyst	Date/Time	Meter #

Sample No.	121681-01	comp	1/2 hr	12-23-12	12-24-12				
Location	influent			0700	0600				
Collector	B. Davis								
Date/Time Sampl	12-24-12								

Sample No.	121681-02	comp	1/2 hr	12-23-12	12-24-12				
Location	Effluent			0700	0600				
Collector	B. Davis								
Date/Time Sampl	12-24-12								

Flow Rate (MGD) 0.700

Sample No.	121681-03	grab							
Location	effluent								
Collector	B. Davis								
Date/Time Sampl	12-24-12								

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	DD	-01b	None	TSS	DD
-02a	None	CBOD	1	-02b	None	TSS	1
-02c	H2SO4	AMMONIA	PA 5.2.0	-02d	H2SO4	TKN	PA 5.2.0
-03e	None	E. Coli	DD				

Relinquished By: B. Davis Date/Time: 12-24-12 12:03 Received By: P. Davis Date/Time: 12-24-12 12:03

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: D. Davis Date/Time: 12-24-12 13:50 Method of Transfer: SMA Arrival Temp (C): 2.2



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/26/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121775-02									
Ammonia	0.116	mg N/L	N10	0.1	0.2	EPA 350.1(1993)	12/26/12 06:00	01/03/13 10:46	CR
CBOD	3.51	mg/L		2	2	SM 5210 B-2001	12/26/12 06:00	12/26/12 15:20	ES
TKN	<0.728	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	12/26/12 06:00	12/31/12 09:00	CR
TSS	13.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/26/12 06:00	12/28/12 08:30	BKS
121775-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/26/12 09:30	12/26/12 13:30	HW

Report No 03-1212

Date Received: 12/26/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121775-01									
CBOD	31.6	mg/L		2	2	SM 5210 B-2001	12/26/12 06:00	12/26/12 15:20	ES
TSS	50.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/26/12 06:00	12/28/12 08:30	BKS



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

01/07/2013

Staci Hickman, Lab Manager

Date

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Qualifiers

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CHAIN OF CUSTODY



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Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

Standard Expedite (Addition Fees Apply)
 Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
 Project: 03-1212

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample	Last Subsample		Analyst	Date/Time	Meter #

Sample No.	121775-01							
Location	influent							
Collector	<u>B. SWW 2</u>	<u>1/4</u>	<u>12-25-12 0700</u>	<u>12-26-12 0600</u>				
Date/Time Sample	<u>12-26-12 6:45</u>							

Sample No.	121775-02							
Location	Effluent							
Collector	<u>B. SWW 2</u>	<u>1/4</u>	<u>12-25-12 0700</u>	<u>12-26-12 0600</u>				
Date/Time Sample	<u>12-26-12 4:00</u>							

Flow Rate (MGD) 1.00

Sample No.	121775-03							
Location	effluent							
Collector	<u>B. SWW 1</u>	<u>grab</u>						
Date/Time Sample	<u>12-26-12 9:30</u>							

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Sample	Preservation	Analysis
-01a	None	CBOD	-01b	None	TSS	-01b	None	TSS
-02a	None	CBOD	-02b	None	TSS	-02b	None	TSS
-02c	H2SO4	AMMONIA	-02d	H2SO4	TKN	-02d	H2SO4	TKN
-03e	None	E. Coli						

Relinquished By: B. SWW 1 Date/Time: 12-26-12 1145 Received By: H/K Date/Time: 12-26-12 1145
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: H/K Date/Time: 12-26-12 1330 Method of Transfer: ER 1 Arrival Temp (C): 3.1



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/28/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121726-02									
Ammonia	0.417	mg N/L		0.1	0.2	EPA 350.1(1993)	12/28/12 06:00	01/03/13 12:17	CR
CBOD	3.42	mg/L		2	2	SM 5210 B-2001	12/28/12 06:00	12/28/12 15:30	ES
TKN	<0.728	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	12/28/12 06:00	01/04/13 12:58	CR
TSS	12.9	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/28/12 06:00	12/31/12 10:20	BKS
121726-03									
E. Coli	2	MPN		1	1	SM 9223B-2004	12/28/12 09:00	12/28/12 15:30	HW

Report No 03-1212

Date Received: 12/28/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121726-01									
CBOD	21.6	mg/L		2	2	SM 5210 B-2001	12/28/12 06:00	12/28/12 15:30	ES
TSS	41.8	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/28/12 06:00	12/31/12 10:20	BKS



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
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MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

01/09/2013

Staci Hickman, Lab Manager

Date

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Qualifiers

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CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

Standard
 Expedite (Addition Fees Apply)
 Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
 Project: 03-1212

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample	Last Subsample		Analyst	Date/Time	Meter #

Sample No.	121726-01							
Location	Influent							
Collector	BWW 2							
Date/Time Sample	12-28-12 6:45							
Sample No.	121726-02							
Location	Effluent							
Collector	BWW 2							
Date/Time Sample	12-28-12 2:00							

Sample No.	121726-03	Flow Rate (MGD)	0.600
Location	effluent		
Collector	BWW 2		
Date/Time Sample	12-28-12 9:00		

Sample	Preservation	Analysis	Sample	Preservation	Analysis
-01a	None	CBOD	-01b	None	TSS
-02a	None	CBOD	-02b	None	TSS
-02c	H2SO4	AMMONIA	-02d	H2SO4	TKN
-03e	None	E. Coli			

Relinquished By: B. D. D. 2 Date/Time: 12-28-12 11:15 Received By: HK Date/Time: 12-28-12 11:15

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: HK Date/Time: 12-28-12 15:30 Method of Transfer: ER 4 Arrival Temp (C): 3.2



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/31/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121930-02									
Ammonia	4.42	mg N/L		0.1	0.2	EPA 350.1(1993)	12/31/12 06:00	01/03/13 12:17	CR
CBOD	7.81	mg/L		2	2	SM 5210 B-2001	12/31/12 06:00	12/31/12 15:00	ES
TKN	3.49	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	12/31/12 06:00	01/04/13 12:58	CR
TSS	25.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/31/12 06:00	01/03/13 09:20	BKS
121930-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/31/12 09:30	12/31/12 14:25	HW

Report No 03-1212

Date Received: 12/31/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121930-01									
CBOD	27.7	mg/L		2	2	SM 5210 B-2001	12/31/12 06:00	12/31/12 15:00	ES
TSS	32.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/31/12 06:00	01/03/13 09:20	BKS



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

01/09/2013

Staci Hickman, Lab Manager

Date

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CHAIN OF CUSTODY



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Tel. (334) 502-3444 Fax (334) 502-8888

Standard
 Expedite (Addition Fees Apply)
 Rush (Addition Fees Apply)

Client: Ashland Water Works & Sewer Bo
Project: 03-1212

G or C	Subsample Frequency	Composite Sample(s)		Analytical Measurements Taken By ERA			
		First Subsample	Last Subsample	Test	Analyst	Date/Time	Meter #

Sample No.	121930-01							
Location	Influent							
Collector	B. Davis	1/2 hr	12-30-12 0100	12-31-12 0600				
Date/Time Sample	12-31-12 6:45							

Sample No.	121930-02							
Location	Effluent							
Collector	B. Davis	1/2 hr	12-30-12 0700	12-31-12 0600				
Date/Time Sample	12-31-12 7:00							

Flow Rate (MGD) 0.650

Sample No.	121930-03							
Location	effluent	grab						
Collector	B. Davis							
Date/Time Sample	12-31-12 9:30							

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	DS	-01b	None	TSS	DS
-02a	None	CBOD		-02b	None	TSS	
-02c	H2SO4	AMMONIA	pH < 2.0	-02d	H2SO4	TKN	pH < 2.0
-03e	None	E. Coli					

Relinquished By: B. Davis Date/Time: 12-31-12 12:24 Received By: P. Addicks Date/Time: 12-31-12 12:24

Relinquished By: Date/Time: Received By: Date/Time:

Received at Lab By: P. Addicks Date/Time: 12-31-12 14:05 Method of Transfer: ERA Arrival Temp (C): 3.1



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1212

Date Received: 12/14/2012

Location Wellborn Cabinets

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121542-01									
CBOD	163	mg/L	2	2		SM 5210 B-2001	12/14/12	12/14/12 15:00	PW
COD	940	mg/L	22	50		HACH 8000	12/14/12	01/08/13 11:30	CR
Color	2350	ADMI CU	2	2		SM 2120 C	12/14/12	12/14/12 15:45	PV
TSS	150	mg/L(Dry)	1	1		SM 2540D Mod-1997	12/14/12	12/17/12 10:30	BKS

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman
Staci Hickman, Lab Manager
01/09/2013
Date

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EPA approved methods in "HACH Water Analysis Handbook", 2nd Ed.
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**ENVIRONMENTAL RESOURCE
ANALYSTS, INC.**

**2975 BROWN COURT
AUBURN, AL 36830
334-502-3444
(FAX) 334-502-8888**

**21 Years in Business, and counting
<http://www.eralab.com>**



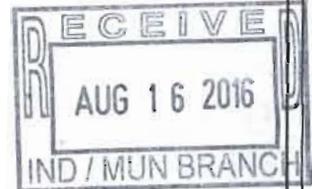
Laboratory Report

Report # 03-0516

**Prepared For Ashland
P.O. Box 365
Ashland, AL 36251**

Attention: Brent Wheeler

Number of Pages in Report: 40



We appreciate the opportunity to provide testing results for you. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data, please do not hesitate to contact the Lab Manager or the Lab Director at the number listed above.

ADEM Cert Number: 41080

GA Cert Number: 836

NELAC Cert Number: E87542



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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0516

Date Received: 5/2/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157158-02									
Ammonia	1.44	mg N/L		0.1	0.2	EPA 350.1(1993)	05/02/16 06:00	05/03/16 13:15	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/02/16 06:00	05/02/16 15:05	YA
TKN	1.80	mg N/L		0.25	1.25	EPA 351.2(1993)	05/02/16 06:00	05/06/16 11:09	CR
TSS	2.50	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/02/16 06:00	05/02/16 16:00	CDR
157158-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/02/16 08:30	05/02/16 13:15	AF

Report No 03-0516

Date Received: 5/2/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157158-01									
CBOD	52.2	mg/L		2	2	SM 5210 B-2001	05/02/16 06:00	05/02/16 15:05	YA
TSS	76.7	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/02/16 06:00	05/02/16 16:00	CDR



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

05/10/2016

Staci Hickman, QA/QC Manager

Date

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EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.
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These results meet all of the requirements of the NELAC standard.



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ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

 Standard
 Expedite (Addition Fees Apply)

Date Required _____

Client: Ashland Water Works & Sewer Bo
 Project: 03-0516

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	157158-01						
Location	influent	comp	1/4 hr	5-1-16 0700	5-2-16 0600		
Collector	B2NW 2						
Date/Time Sampled	5-2-16 6:45						

Sample No.	157158-02						
Location	Effluent	comp	1/4 hr	5-1-16 0700	5-2-16 0600		
Collector	B2NW 2						
Date/Time Sampled	5-2-16 7:15						

Flow Rate (MGD)	0.700						
Sample No.	157158-03						
Location	effluent	grab					
Collector	B2NW 2						
Date/Time Sampled	5-2-16 8:30						

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Sample	Preservation	Analysis
-01a	None	CBOD	-01b	None	TSS			
-02a	None	CBOD	-02b	None	TSS			
-02c	H2SO4	AMMONIA	-02d	H2SO4	TKN			
-03e	None	E. Coli						

Relinquished By: B2NW 2 Date/Time: 5-2-16 10:55 Received By: BG Date/Time: 5-2-16 10:55

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 5/2/16 1315 Method of Transfer: ERA Arrival Temp (C): 3.3

AD5021C BG

AD3021W BG



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Bryn Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 3-0516

Date Received: 5/4/2016

Location Effluent 1st week

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157222-02									
Ammonia	2.26	mg N/L		0.1	0.2	EPA 350.1(1993)	05/04/16 06:00	05/09/16 13:25	CR
Arsenic	<0.20	ug/L		0.2	1	EPA 200.8 (1994)	05/04/16 06:00	05/19/16 15:55	HW
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/04/16 06:00	05/04/16 16:45	BH
Lead	<0.18	ug/L		0.18	1	EPA 200.8 (1994)	05/04/16 06:00	05/19/16 15:55	HW
NO2-/NO3	1.97	mg N/L		0.04	0.1	EPA 353.2(1993)	05/04/16 06:00	05/06/16 14:49	CR
TKN	8.62	mg N/L		0.25	1.25	EPA 351.2(1993)	05/04/16 06:00	05/13/16 13:20	CR
T-Phosphorous	3.64	mg P/L		0.05	0.5	EPA 365.4(1974)	05/04/16 06:00	05/13/16 13:20	CR
TSS	4.75	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/04/16 06:00	05/06/16 12:45	CDR
157222-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/04/16 08:30	05/04/16 16:05	HW

Report No 3-0516

Date Received: 5/4/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157222-01									
CBOD	32.5	mg/L		2	2	SM 5210 B-2001	05/04/16 06:00	05/04/16 16:45	BH
TSS	54.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/04/16 06:00	05/06/16 12:45	CDR



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Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 3-0516

G or C	Subsample Frequency	Composite Sample(s) First Subsample Date/Time	Last Subsample Date/Time	Test	Analyst	Date/Time	Meter #	Probe #
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Sample No.	157222-01							
Location	Influent							
Collector	B. Smith							
Date/Time Sampled	5-4-16 6:45							

Sample No.	157222-02							
Location	Effluent 1st week							
Collector	B. Smith							
Date/Time Sampled	5-4-16 7:15							

Sample No.	157222-03							
Location	Effluent 1st week							
Collector	B. Smith							
Date/Time Sampled	5-4-16 8:30							

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Sample	Preservation	Analysis
-01a	None	CBOD	-01b	None	TSS			
-02a	None	CBOD	-02b	None	TSS			
-02c	H2SO4	AMMONIA	-02d	H2SO4	Phosphate, TKN			
-02e	H2SO4	NO2-/NO3	-02g	HNO3	Sub-Metals			
-03g	None	E. Coli						

Relinquished By: B. Smith Date/Time: 5-4-16 1130 Received By: BG Date/Time: 5/4/16 1130

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 5/4/16 1605 Method of Transfer: ERA Arrival Temp (C): 3.8



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0516

Date Received: 5/6/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157280-02									
Ammonia	2.35	mg N/L		0.1	0.2	EPA 350.1(1993)	05/06/16 06:00	05/09/16 13:25	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/06/16 06:00	05/06/16 16:00	NG
TKN	3.45	mg N/L		0.25	1.25	EPA 351.2(1993)	05/06/16 06:00	05/16/16 08:55	CR
TSS	5.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/06/16 06:00	05/09/16 13:30	BEH
157280-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/06/16 08:30	05/06/16 13:00	KH

Report No 03-0516

Date Received: 5/6/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157280-01									
CBOD	44.2	mg/L		2	2	SM 5210 B-2001	05/06/16 06:00	05/06/16 16:00	NG
TSS	123	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/06/16 06:00	05/09/16 13:30	BEH



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

05/19/2016

Staci Hickman, QA/QC Manager

Date

This person may be contacted for questions at the number listed above.

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EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
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Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0516

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	157280-01						
Location	influent						
Collector	B. S. D. L.	comp	1/yr	5-5-16 0700	5-6-16 0600		
Date/Time Sampled	5-6-16						

Sample No.	157280-02						
Location	Effluent						
Collector	B. S. D. L.	comp	1/yr	5-5-16 0700	5-6-16 0600		
Date/Time Sampled	5-6-16						

Flow Rate (MGD)

Sample No.	157280-03						
Location	effluent						
Collector	B. S. D. L.	grab					
Date/Time Sampled	5-6-16			8:30			

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BG	-01b	None	TSS	BG
-02a	None	CBOD		-02b	None	TSS	
-02c	H2SO4	AMMONIA	pH 8.0	-02d	H2SO4	TKN	pH 8.0
-03e	None	E. Coli	BG				

Relinquished By: B. S. D. L. Date/Time: 5-6-16 11:15 Received By: BG Date/Time: 5/6/16 11:15

Relinquished By: Date/Time: Received By: Date/Time:

Relinquished By: Date/Time: Received By: Date/Time:

Received at Lab By: BG Date/Time: 5/6/16 12:55 Method of Transfer: ERA Arrival Temp (C): 2.7



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0516

Date Received: 5/9/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157384-02									
Ammonia	0.953	mg N/L		0.1	0.2	EPA 350.1(1993)	05/09/16 06:00	05/16/16 12:32	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/09/16 06:00	05/09/16 16:15	NG
TKN	1.23	mg N/L	N10	0.25	1.25	EPA 351.2(1993)	05/09/16 06:00	05/16/16 08:55	CR
TSS	5.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/09/16 06:00	05/11/16 13:30	BEH
157384-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/09/16 07:45	05/09/16 15:45	KH

Report No 03-0516

Date Received: 5/9/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157384-01									
CBOD	20.8	mg/L	K1	2	2	SM 5210 B-2001	05/09/16 06:00	05/09/16 16:15	NG
TSS	56.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/09/16 06:00	05/11/16 13:30	BEH



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Brent Wheeler
P.O. Box 365
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MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

05/19/2016

Staci Hickman, QA/QC Manager

Date

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Qualifiers

- K1 = The sample dilutions set-up for the BOD analysis did not meet the oxygen depletion criteria of at least 2 mg/L. Any reported result is an estimated value.
- N10 = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit and should only be relied upon as an estimate.



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Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0516

G or C	Subsample Frequency	Composite Sample(s) First Subsample Date/Time	Last Subsample Date/Time	Test	Analyst	Date/Time	Meter #	Probe #
--------	---------------------	---	--------------------------	------	---------	-----------	---------	---------

Sample No.	157384-01							
Location	Influent							
Collector	B SWL 2							
Date/Time Sampled	5-9-16 2:45	1/ hr	5-8-16 0700	5-9-16 2600				

Sample No.	157384-02							
Location	Effluent							
Collector	B SWL 2							
Date/Time Sampled	5-9-16 7:10	1/ hr	5-8-16 0700	5-9-16 2600				

Flow Rate (MGD) 0.150

Sample No.	157384-03							
Location	effluent							
Collector	B SWL 2							
Date/Time Sampled	5-9-16 7:45	grab						

Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BG
-02a	None	CBOD	↓
-02c	H2SO4	AMMONIA	pH 2.0
-03e	None	E. Coli	BG

Sample	Preservation	Analysis	Preservation CK
-01b	None	TSS	BG
-02b	None	TSS	↓
-02d	H2SO4	TKN	pH 2.0

Relinquished By: B SWL 2 Date/Time: 5-9-16 1350 Received By: BG Date/Time: 5/9/16 1350

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 5/9/16 1545 Method of Transfer: ERA Arrival Temp (C): 23



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Joe Freda, Lab Director

05/24/2016

Date

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Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0516

G or C	Subsample Frequency	Composite Sample(s) First Subsample Date/Time	Last Subsample Date/Time	Test	Analyse!	Date/Time	Meter #	Probe #
--------	---------------------	---	--------------------------	------	----------	-----------	---------	---------

Sample No.	157444-01							
Location	Influent							
Collector	BSO							
Date/Time Sampled	5-11-16 6:45							
		1 hr	5-10-16 0700	5-11-16 0600				

Sample No.	157444-02							
Location	Effluent							
Collector	BSO							
Date/Time Sampled	5-11-16 7:00							
		1 hr	5-10-16 0700	5-11-16 0600				

Flow Rate (MGD) 0.200

Sample No.	157444-03							
Location	effluent							
Collector	BSO							
Date/Time Sampled	5-11-16 7:30							
		grab						

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BS	-01b	None	TSS	BS
-02a	None	CBOD	↓	-02b	None	TSS	↓
-02c	H2SO4	AMMONIA	pH 8.0	-02d	H2SO4	TKN	pH 8.0
-03e	None	E. Coli	BS				

Relinquished By: BSO Date/Time: 5-11-16 1335 Received By: BS Date/Time: 5/11/16 1335

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BS Date/Time: 5/11/16 1645 Method of Transfer: ERA Arrival Temp (C): 35



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0516

Date Received: 5/13/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157502-02									
Ammonia	3.70	mg N/L		0.1	0.2	EPA 350.1(1993)	05/13/16 06:00	05/16/16 12:32	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/13/16 06:00	05/13/16 16:00	BH
TKN	3.96	mg N/L		0.25	1.25	EPA 351.2(1993)	05/13/16 06:00	05/20/16 09:48	CR
TSS	3.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/13/16 06:00	05/16/16 13:00	BEH
157502-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/13/16 08:30	05/13/16 14:15	AF

Report No 03-0516

Date Received: 5/13/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157502-01									
CBOD	75.2	mg/L		2	2	SM 5210 B-2001	05/13/16 06:00	05/13/16 16:00	BH
TSS	143	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/13/16 06:00	05/16/16 13:00	BEH



CHAIN OF CUSTODY



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 Tel. (334) 502-3444 Fax (334) 502-8888

Standard
 Expedite (Addition Fees Apply)
 Date Required

Client: Ashland Water Works & Sewer Bo
 Project: 03-0516

G or C	Subsample Frequency	Composite Sample(s) First Subsample Date/Time	Last Subsample Date/Time	Test	Analytical Measurements Taken By ERA	Date/Time	Meter #	Probe #
	1/hr	5-12-16 0700	5-13-16 0600					
	1/hr	5-12-16 0700	5-13-16 0600					

Sample No.	157502-01
Location	Influent
Collector	B SWL
Date/Time Sampled	5-13-16 6:45

Sample No.	157502-02
Location	Effluent
Collector	B SWL
Date/Time Sampled	5-13-16 7:10

Flow Rate (MGD) 0.950

Sample No.	157502-03
Location	effluent
Collector	B SWL
Date/Time Sampled	5-13-16 8:30

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Sample	Preservation	Analysis
-01a	None	CBOD	-01b	None	TSS			
-02a	None	CBOD	-02b	None	TSS			
-02c	H2SO4	AMMONIA	-02d	H2SO4	TKN			
-03e	None	E. Coli						

Relinquished By: B SWL Date/Time: 5-13-16 1235 Received By: BG Date/Time: 5/13/16 1235

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BG Date/Time: 5/13/16 1415 Method of Transfer: ERA Arrival Temp (C): 3.4



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0516

Date Received: 5/16/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157569-02									
Ammonia	1.77	mg N/L		0.1	0.2	EPA 350.1(1993)	05/16/16 06:00	05/23/16 12:54	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/16/16 06:00	05/16/16 13:30	LM
TKN	2.99	mg N/L		0.25	1.25	EPA 351.2(1993)	05/16/16 06:00	05/20/16 09:48	CR
TSS	1.75	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/16/16 06:00	05/19/16 11:00	AR
157569-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/16/16 08:00	05/16/16 13:30	AF

Report No 03-0516

Date Received: 5/16/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157569-01									
CBOD	24.7	mg/L		2	2	SM 5210 B-2001	05/16/16 06:00	05/16/16 13:30	LM
TSS	22.5	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/16/16 06:00	05/19/16 11:00	AR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

05/24/2016

Joe Freda, Lab Director

Date

This person may be contacted for questions at the number listed above.

All collection and test times are reported as central standard time.
EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.
The results shown relate only to these samples.
These results meet all of the requirements of the NELAC standard.



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0516

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	157569-01							
Location	Influent	comp	1/1r	5-15-16 0720	5-16-16 0100			
Collector	B. D. W. J.							
Date/Time Sampled	5-16-16		6:45					

Sample No.	157569-02							
Location	Effluent	comp	1/1r	5-15-16 0700	5-16-16 0200			
Collector	B. D. W. J.							
Date/Time Sampled	5-16-16		7:10					

Flow Rate (MGD) 0.700

Sample No.	157569-03							
Location	effluent	grab						
Collector	B. D. W. J.							
Date/Time Sampled	5-16-16		8:00					

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BC	-01b	None	TSS	BC
-02a	None	CBOD	↓	-02b	None	TSS	↓
-02c	H2SO4	AMMONIA	PH 2.0	-02d	H2SO4	TKN	PH 2.0
-03e	None	E. Coli	BC				

Relinquished By: B. D. W. J. Date/Time: 5-16-16 1145 Received By: BC Date/Time: 5/16/16 1140

Relinquished By: Date/Time: Received By: Date/Time:

Relinquished By: Date/Time: Received By: Date/Time:

Received at Lab By: BC Date/Time: 5/16/16 1330 Method of Transfer: ERA Arrival Temp (C): 3.5



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0516

Date Received: 5/18/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157608-02									
Ammonia	2.06	mg N/L		0.1	0.2	EPA 350.1(1993)	05/18/16 06:00	05/23/16 14:37	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/18/16 06:00	05/18/16 16:40	LM
TKN	2.43	mg N/L		0.25	1.25	EPA 351.2(1993)	05/18/16 06:00	05/20/16 09:48	CR
TSS	2.50	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/18/16 06:00	05/20/16 10:30	YA
157608-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/18/16 08:00	05/18/16 15:25	AF

Report No 03-0516

Date Received: 5/18/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157608-01									
CBOD	50.2	mg/L		2	2	SM 5210 B-2001	05/18/16 06:00	05/18/16 16:40	LM
TSS	60.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/18/16 06:00	05/20/16 10:30	YA



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

05/25/2016

Joe Freda, Lab Director

Date

This person may be contacted for questions at the number listed above.

All collection and test times are reported as central standard time.
EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.
The results shown relate only to these samples.
These results meet all of the requirements of the NELAC standard.



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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard

Expedite (Addition Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0516

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	157608-01							
Location	influent							
Collector	<u>BSM</u>	1/h	5-19-16 0720	5-18-16 0600				
Date/Time Sampled	5-18-16 6:45							

Sample No.	157608-02							
Location	Effluent							
Collector	<u>BSM</u>	1/h	5-17-16 0700	5-18-16 0600				
Date/Time Sampled	5-18-16 7:10							

Sample No.	157608-03							
Location	effluent							
Collector	<u>BSM</u>	grab						
Date/Time Sampled	5-18-16 8:00							

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	<u>PH</u>	-01b	None	TSS	<u>PH</u>
-02a	None	CBOD	<u>PH</u>	-02b	None	TSS	<u>PH</u>
-02c	H2SO4	AMMONIA	<u>PH ≤ 2.0</u>	-02d	H2SO4	TKN	<u>PH ≤ 2.0</u>
-03e	None	E. Coli	<u>PH</u>				

Relinquished By: BSM Date/Time: 5-18-16 10:44 Received By: ER Date/Time: 5-18-16 10:44

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: ER Date/Time: 5-18-16 15:25 Method of Transfer: ERA Arrival Temp (C): 3.6



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0516

Date Received: 5/20/2016

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157676-02									
Ammonia	3.31	mg N/L		0.1	0.2	EPA 350.1(1993)	05/20/16 06:00	05/23/16 12:54	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/20/16 06:00	05/20/16 16:00	BH
TKN	2.71	mg N/L		0.25	1.25	EPA 351.2(1993)	05/20/16 06:00	05/27/16,11:34	CR
TSS	5.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/20/16 06:00	05/23/16 11:00	YA
157676-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/20/16 08:00	05/20/16 13:35	AF

Report No 03-0516

Date Received: 5/20/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157676-01									
CBOD	63.8	mg/L		2	2	SM 5210 B-2001	05/20/16 06:00	05/20/16 16:00	BH
TSS	105	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/20/16 06:00	05/23/16 11:00	YA



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

05/31/2016

Staci Hickman, QA/QC Manager

Date

This person may be contacted for questions at the number listed above.

All collection and test times are reported as central standard time.
EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
IDEXX Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME 04092.
State of Florida, NELAC Certification #E87542
Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.
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ENVIRONMENTAL RESOURCE ANALYSTS, INC.
Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard Expedite (Addition Fees Apply)
Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0516

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	157676-01							
Location	influent							
Collector	BSMIL 8	comp	1/yr	5-19-16	0700	5-20-16	0600	
Date/Time Sampled	5-20-16				6:45			

Sample No.	157676-02							
Location	Effluent							
Collector	BSMIL 8	comp	1/yr	5-19-16	0700	5-20-16	0600	
Date/Time Sampled	5-20-16				7:10			

Flow Rate (MGD) 2.800

Sample No.	157676-03							
Location	effluent							
Collector	BSMIL 8	grab						
Date/Time Sampled	5-20-16				8:00			

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	CBOD	BC	-01b	None	TSS	BC
-02a	None	CBOD	↓	-02b	None	TSS	↓
-02c	H2SO4	AMMONIA	PH 8.20	-02d	H2SO4	TKN	PH 8.20
-03e	None	E. Coli	BC				

Relinquished By: BSMIL 8 Date/Time: 5-20-16 1155 Received By: BC Date/Time: 5/20/16 1155

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: BC Date/Time: 5/20/16 1335 Method of Transfer: CRA Arrival Temp (C): 3.2



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard
 Expedite (Addition Fees Apply)
Date Required

Client: Ashland Water Works & Sewer Bo
Project: 03-0516

G or C	Subsample Frequency	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
		First Subsample Date/Time	Last Subsample Date/Time		Analyst	Date/Time	Meter #

Sample No.	157974-01						
Location	Influent	comp	1/1h	5-29-16 0700	5-30-16 0600		
Collector	B-SM/L 2						
Date/Time Sampled	5-30-16		1:45				

Sample No.	157974-02						
Location	Effluent	comp	1/1h	5-29-16 0700	5-30-16 0600		
Collector	B-SM/L 2						
Date/Time Sampled	5-30-16		7:15				

Flow Rate (MGD) 0.600

Sample No.	157974-03						
Location	effluent	grab					
Collector	B-SM/L 0						
Date/Time Sampled	5-30-16		8:00				

Sample	Preservation	Analysis									
-01a	None	CBOD	-01b	None	TSS	-01c	None	TSS	-01d	None	TSS
-02a	None	CBOD	-02b	None	TSS	-02c	None	TSS	-02d	None	TKN
-02c	H2SO4	AMMONIA									
-03e	None	E. Coli									

Relinquished By: MS [Signature] Date/Time: 5-30-16 10:30 Received By: HR Date/Time: 5-30-16 10:30

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: HR Date/Time: 5-30-16 1:30 Method of Transfer: FEA Arrival Temp (C): 3.1

ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
 Brent Wheeler
 P.O. Box 365
 Ashland, AL 36251

Report No 3-0516

Date Received: 5/4/2016

Location Effluent 1st week

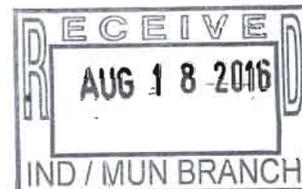
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157222-02									
Ammonia	2.26	mg N/L		0.1	0.2	EPA 350.1(1993)	05/04/16 06:00	05/09/16 13:25	CR
Arsenic	<0.20	ug/L		0.2	1	EPA 200.8 (1994)	05/04/16 06:00	05/19/16 15:55	HW
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/04/16 06:00	05/04/16 16:45	BH
Lead	<0.18	ug/L		0.18	1	EPA 200.8 (1994)	05/04/16 06:00	05/19/16 15:55	HW
NO2-/NO3	1.97	mg N/L		0.04	0.1	EPA 353.2(1993)	05/04/16 06:00	05/06/16 14:49	CR
TKN	8.62	mg N/L		0.25	1.25	EPA 351.2(1993)	05/04/16 06:00	05/13/16 13:20	CR
T-Phosphorous	3.64	mg P/L		0.05	0.5	EPA 365.4(1974)	05/04/16 06:00	05/13/16 13:20	CR
TSS	4.75	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/04/16 06:00	05/06/16 12:45	CDR
157222-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/04/16 08:30	05/04/16 16:05	HW

Report No 3-0516

Date Received: 5/4/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
157222-01									
CBOD	32.5	mg/L		2	2	SM 5210 B-2001	05/04/16 06:00	05/04/16 16:45	BH
TSS	54.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/04/16 06:00	05/06/16 12:45	CDR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
 Brent Wheeler
 P.O. Box 365
 Ashland, AL 36251

Report No 03-0616

Date Received: 6/1/2016

Location Effluent 1st week

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158021-02									
Ammonia	1.60	mg N/L		0.1	0.2	EPA 350.1(1993)	06/01/16 06:00	06/06/16 14:11	CR
Arsenic	<0.20	ug/L		0.2	1	EPA 200.8 (1994)	06/01/16 06:00	06/23/16 13:41	HW
CBOD	<2.00	mg/L	D	2	2	SM 5210 B-2001	06/01/16 06:00	06/01/16 16:45	BH
Lead	<0.18	ug/L		0.18	1	EPA 200.8 (1994)	06/01/16 06:00	06/23/16 13:41	HW
NO2-/NO3	8.10	mg N/L		0.04	0.1	EPA 353.2(1993)	06/01/16 06:00	06/08/16 09:27	CR
TKN	20.9	mg N/L		0.25	1.25	EPA 351.2(1993)	06/01/16 06:00	06/10/16 12:18	CR
T-Phosphorous	9.25	mg P/L		0.05	0.5	EPA 365.4(1974)	06/01/16 06:00	06/10/16 12:18	CR
TSS	6.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/01/16 06:00	06/03/16 10:05	YA
158021-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/01/16 08:00	06/01/16 16:05	KH

Report No 03-0616

Date Received: 6/1/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
158021-01									
CBOD	42.5	mg/L	D	2	2	SM 5210 B-2001	06/01/16 06:00	06/01/16 16:45	BH
TSS	63.3	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/01/16 06:00	06/03/16 10:05	YA



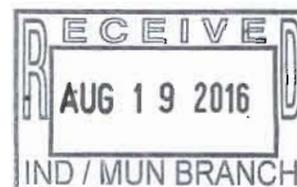


ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251



Report No 03-0716

Date Received: 7/6/2016

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
159155-02									
Ammonia	0.558	mg N/L		0.1	0.2	EPA 350.1(1993)	07/06/16 06:00	07/11/16 14:23	CR
Arsenic	<0.20	ug/L		0.2	1	EPA 200.8 (1994)	07/06/16 06:00	07/26/16 18:41	JF
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	07/06/16 06:00	07/06/16 15:45	LM
Lead	<0.18	ug/L		0.18	1	EPA 200.8 (1994)	07/06/16 06:00	07/26/16 18:41	JF
NO2-/NO3	4.80	mg N/L		0.04	0.1	EPA 353.2(1993)	07/06/16 06:00	07/31/16 12:07	CR
TKN	3.16	mg N/L		0.25	1.25	EPA 351.2(1993)	07/06/16 06:00	07/15/16 12:18	CR
T-Phosphorous	2.28	mg P/L		0.05	0.5	EPA 365.4(1974)	07/06/16 06:00	07/15/16 12:18	CR
TSS	4.23	mg/L(Dry)		1	1	SM 2540D Mod-1997	07/06/16 06:00	07/08/16 12:10	YA

Report No 03-0716

Date Received: 7/6/2016

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
159155-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	07/06/16 08:00	07/06/16 16:30	AF

Report No 03-0716

Date Received: 7/6/2016

Location influent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
159155-01									
CBOD	24.1	mg/L		2	2	SM 5210 B-2001	07/06/16 06:00	07/06/16 15:45	LM
TSS	38.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	07/06/16 06:00	07/08/16 12:10	YA



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1012

Date Received: 10/12/2012

Location Sludge Bed

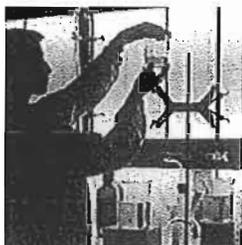
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
119162-01									
Ammonia-N	<358	mg/kg		358	358	EPA 350.1	10/12/12 09:30	10/18/12 17:55	JAD
Arsenic	<11.7	mg/kg		11.7	23.4	EPA 6010C	10/12/12 09:30	11/01/12 15:08	HW
Cadmium	<11.4	mg/kg		11.4	22.8	EPA 6010C	10/12/12 09:30	11/01/12 15:08	HW
Chromium	19.7	mg/kg	N10	16.5	33	EPA 6010C	10/12/12 09:30	11/01/12 15:08	HW
Copper	112	mg/kg	N10	57.9	116	EPA 6010C	10/12/12 09:30	11/01/12 15:08	HW
Kjeldahl-N	30,300	mg/kg		162	162	EPA 351.2	10/12/12 09:30	10/24/12 10:07	JAD
Lead	23.8	mg/kg		10.9	21.9	EPA 6010C	10/12/12 09:30	11/01/12 15:08	HW
Mercury	0.980	mg/kg	N10	0.86	1.7	EPA 7471A	10/12/12 09:30	11/02/12 11:00	HW
Molybdenum	<8.34	mg/kg		8.34	16.7	EPA 6010C	10/12/12 09:30	11/01/12 15:08	HW
Nickel	11.6	mg/kg	N10	7.79	15.6	EPA 6010C	10/12/12 09:30	11/01/12 15:08	HW
Nitrate/Nitrite	192	mg/kg		5.7	5.7	EPA 353.2	10/12/12 09:30	10/22/12 11:20	JAD
Phosphorous-P	23,100	mg/kg		209	209	EPA 365.4	10/12/12 09:30	10/24/12 10:07	JAD
Selenium	<18.7	mg/kg		18.7	37.4	EPA 6010C	10/12/12 09:30	11/01/12 15:08	HW
Total Solids	82.3	%		0.1	0.1	EPA 2540B	10/12/12 09:30	10/18/12 09:00	JAD
Zinc	2,850	mg/kg		110	220	EPA 6010C	10/12/12 09:30	11/01/12 15:08	HW



**ENVIRONMENTAL RESOURCE
ANALYSTS, INC.**

2975 BROWN COURT
AUBURN, AL 36830
334-502-3444
(FAX) 334-502-8888

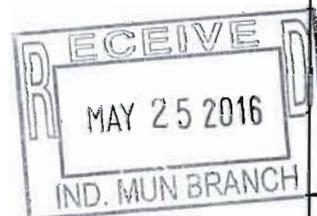
21 Years in Business, and counting
<http://www.eralab.com>



Laboratory Report

Report # 03-1013

Prepared For Ashland
P.O. Box 365
Ashland, AL 36251



Attention: Brent Wheeler

Number of Pages in Report: 11

We appreciate the opportunity to provide testing results for you. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data, please do not hesitate to contact the Lab Manager or the Lab Director at the number listed above.

ADEM Cert Number: 41080

GA Cert Number: 836

NELAC Cert Number: E87542



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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
 Brent Wheeler
 P.O. Box 365
 Ashland, AL 36251

Report No 03-1013

Date Received: 10/11/2013

Location Effluent-PP

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
130842-01									
Cyanide	0.0028	mg/L	N10	0.003	0.005	EPA 335.4(1993)	10/11/13 08:05	10/22/13 15:13	CR
Fecal Coliform	<1	MPN		1	1	Colilert-18®(Fecal Coliforms)	10/11/13 08:05	10/11/13 15:05	CJW
Oil & Grease	4.35	mg/L	N10	0.61	5	EPA 1664A	10/11/13 08:05	10/18/13 13:30	HK
Phenol	<0.027	mg/L		0.027	0.05	EPA 420.1(1978)	10/11/13 08:05	10/21/13 08:40	BKS
130842-02									
Ammonia	1.79	mg N/L		0.074	0.2	EPA 350.1(1993)	10/11/13 06:00	10/14/13 14:22	CR
Antimony	<26.6	ug/L		26.6	50	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
Arsenic	<11.2	ug/L		11.2	50	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
Beryllium	<1.9	ug/L		1.9	5	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
Cadmium	<2.8	ug/L		2.8	10	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
Chromium	<6.8	ug/L		6.8	25	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
Copper	15.5	ug/L		4.7	10	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
Hardness	52.4	mg/L CaCO2		4.3	4.3	SM 2340C-1997	10/11/13 06:00	10/14/13 13:00	LA
Lead	<23.2	ug/L		23.2	50	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
Nickel	<9.7	ug/L	N13	9.7	10	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
NO2-/NO3	38.2	mg N/L		0.09	0.2	EPA 353.2(1993)	10/11/13 06:00	10/28/13 09:12	CR
Selenium	<21.8	ug/L		21.8	50	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
Silver	<3.1	ug/L		3.1	10	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
TDS	482	mg/L(Dry)	Q1	2	2	SM 2540C-1997	10/11/13 06:00	10/16/13 15:20	BKS
Thallium	<27.2	ug/L		27.2	50	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW
TKN	4.10	mg N/L		0.494	1.25	EPA 351.2(1993)	10/11/13 06:00	10/18/13 11:24	CR
T-Phosphorous	9.42	mg P/L		0.064	0.5	EPA 365.4(1974)	10/11/13 06:00	10/18/13 11:24	CR
Zinc	162	ug/L		10.4	25	EPA 200.7(1994)	10/11/13 06:00	10/15/13 12:31	HW



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Staci Hickman

11/04/2013

Staci Hickman, QA/QC Manager

Date

This person may be contacted for questions at the number listed above.

"Methods for Chemical Analysis of Water and Wastes" EPA, EMSL-CI, EPA 600/4-79-020, Rev. March 1979 & 1983.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.

EPA-821-R-98-002, February 1999.

State of Florida, NELAC Certification #E87542

Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.

The results shown relate only to these samples.

These results meet all of the requirements of the NELAC standard.

Qualifiers

- N10 = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit and should only be relied upon as an estimate.
- N13 = Percent recovery of the ICS standard was not within 10% as specified by the method.
- O4 = The matrix spike recovery of the compound was not within its target range.
- Q1 = Sample duplicate precision did not fall within laboratory specified limits, but all other QA/QC for the run met run criteria.



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-1013
Date Received: 10/11/2013

Sample Number: 130842-01
Description: grab

Collection Date: 10/11/2013 8:05
Location: Effluent-PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
Acrolein	EPA 624	BMDL	ug/L	12.6	50	10/22/13 21:42	EC	
Acrylonitrile	EPA 624	BMDL	ug/L	11	50	10/22/13 21:42	EC	
Benzene	EPA 624	BMDL	ug/L	1.16	5	10/22/13 21:42	EC	
bromoform	EPA 624	BMDL	ug/L	1.34	5	10/22/13 21:42	EC	
bromomethane	EPA 624	BMDL	ug/L	2.48	5	10/22/13 21:42	EC	
Carbon Tetrachloride	EPA 624	BMDL	ug/L	1.75	5	10/22/13 21:42	EC	
chlorobenzene	EPA 624	BMDL	ug/L	1.36	5	10/22/13 21:42	EC	
chlorodibromomethane	EPA 624	BMDL	ug/L	0.919	5	10/22/13 21:42	EC	
chloroethane	EPA 624	BMDL	ug/L	1.21	5	10/22/13 21:42	EC	
chloroform	EPA 624	BMDL	ug/L	1.31	5	10/22/13 21:42	EC	
chloromethane	EPA 624	BMDL	ug/L	1.02	5	10/22/13 21:42	EC	
2-Chloroethyl vinyl ether	EPA 624	BMDL	ug/L	1.16	10	10/22/13 21:42	EC	O4
dichlorobromomethane	EPA 624	BMDL	ug/L	1.19	5	10/22/13 21:42	EC	
1,4-Dichlorobenzene	EPA 624	BMDL	ug/L	1.38	5	10/22/13 21:42	EC	
1,1-dichloroethene	EPA 624	BMDL	ug/L	1.47	5	10/22/13 21:42	EC	
1,1-dichloroethane	EPA 624	BMDL	ug/L	1.25	5	10/22/13 21:42	EC	
1,2-dichloroethane	EPA 624	BMDL	ug/L	1.21	5	10/22/13 21:42	EC	
trans-1,2 Dichloroethene	EPA 624	BMDL	ug/L	1.28	5	10/22/13 21:42	EC	
1,3-dichloropropene	EPA 624	BMDL	ug/L	1.04	5	10/22/13 21:42	EC	
1,2-dichloropropane	EPA 624	BMDL	ug/L	1.08	5	10/22/13 21:42	EC	
Ethylbenzene	EPA 624	BMDL	ug/L	1.35	5	10/22/13 21:42	EC	
methylene chloride	EPA 624	BMDL	ug/L	2.74	5	10/22/13 21:42	EC	
tetrachloroethene	EPA 624	BMDL	ug/L	1.97	5	10/22/13 21:42	EC	
trichloroethene	EPA 624	BMDL	ug/L	1.52	5	10/22/13 21:42	EC	
Toluene	EPA 624	BMDL	ug/L	1.29	5	10/22/13 21:42	EC	
vinyl chloride	EPA 624	BMDL	ug/L	1.65	5	10/22/13 21:42	EC	
1,1,2,2-tetrachloroethane	EPA 624	BMDL	ug/L	1.2	5	10/22/13 21:42	EC	
1,1,2-trichloroethane	EPA 624	BMDL	ug/L	1.46	5	10/22/13 21:42	EC	
xylenes, total	EPA 624	BMDL	ug/L	2.78	5	10/22/13 21:42	EC	



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-1013
Date Received: 10/11/2013

Sample Number: 130842-01
Description: grab

Collection Date: 10/11/2013 8:05
Location: Effluent-PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
1,2-Dichlorobenzene	EPA 625	BMDL	ug/L	7.97	10	10/22/13 21:42	EC	
1,3-Dichlorobenzene	EPA 625	BMDL	ug/L	7	10	10/22/13 21:42	EC	
para-chloro meta-cresol	EPA 625	BMDL	ug/L	6.48	10	10/16/13 16:17	EC	
2-chlorophenol	EPA 625	BMDL	ug/L	6.15	10	10/16/13 16:17	EC	
2,4-dichlorophenol	EPA 625	BMDL	ug/L	5.92	10	10/16/13 16:17	EC	
2,4-dimethylphenol	EPA 625	BMDL	ug/L	4.54	5	10/16/13 16:17	EC	
2-nitrophenol	EPA 625	BMDL	ug/L	5.14	10	10/16/13 16:17	EC	
4-nitrophenol	EPA 625	BMDL	ug/L	6.6	10	10/16/13 16:17	EC	
2,4-dinitrophenol	EPA 625	BMDL	ug/L	11.9	20	10/16/13 16:17	EC	
4,6-dinitro-o-cresol	EPA 625	BMDL	ug/L	13.9	20	10/16/13 16:17	EC	
Pentachlorophenol	EPA 625	BMDL	ug/L	15.9	20	10/16/13 16:17	EC	
Phenol	EPA 625	BMDL	ug/L	7.67	10	10/16/13 16:17	EC	
2,4,6-trichlorophenol	EPA 625	BMDL	ug/L	4.79	5	10/16/13 16:17	EC	
1,2-Diphenylhydrazine	EPA 625	BMDL	ug/L	9.73	10	10/16/13 16:17	EC	
Acenaphthene	EPA 625	BMDL	ug/L	4.64	5	10/16/13 16:17	EC	
Acenaphthylene	EPA 625	BMDL	ug/L	4.92	5	10/16/13 16:17	EC	
Anthracene	EPA 625	BMDL	ug/L	5.18	10	10/16/13 16:17	EC	
Benzidine	EPA 625	BMDL	ug/L	26	40	10/16/13 16:17	EC	
benzo (a) anthracene	EPA 625	BMDL	ug/L	4	5	10/16/13 16:17	EC	
benzo (ghi)perylene	EPA 625	BMDL	ug/L	7.23	10	10/16/13 16:17	EC	
Benzo(A)Pyrene	EPA 625	BMDL	ug/L	4.6	5	10/16/13 16:17	EC	
benzo(b)fluoranthene	EPA 625	BMDL	ug/L	4.9	20	10/16/13 16:17	EC	
benzo(k)fluoranthene	EPA 625	BMDL	ug/L	8.12	10	10/16/13 16:17	EC	
Bis (2-chloroethyl) Ether	EPA 625	BMDL	ug/L	8	10	10/16/13 16:17	EC	
bis(2-Chloroethoxy)methane	EPA 625	BMDL	ug/L	8.26	10	10/16/13 16:17	EC	
bis(2-chloroisopropyl)ethe	EPA 625	BMDL	ug/L	8.6	10	10/16/13 16:17	EC	
bis(2-Ethylhexyl)phthalate	EPA 625	BMDL	ug/L	9.71	10	10/16/13 16:17	EC	
Butylbenzyl phthalate	EPA 625	BMDL	ug/L	9.12	10	10/16/13 16:17	EC	
4-Bromophenyl-phenyl ether	EPA 625	BMDL	ug/L	9.42	10	10/16/13 16:17	EC	



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-1013
Date Received: 10/11/2013

Sample Number: 130842-01
Description: grab

Collection Date: 10/11/2013 8:05
Location: Effluent-PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
2-Chloronaphthalene	EPA 625	BMDL	ug/L	6.73	10	10/16/13 16:17	EC	
4-chlorophenyl-phenyl ether	EPA 625	BMDL	ug/L	6.85	10	10/16/13 16:17	EC	
Chrysene	EPA 625	BMDL	ug/L	4.26	5	10/16/13 16:17	EC	
Di-n-butyl phthalate	EPA 625	BMDL	ug/L	9.18	10	10/16/13 16:17	EC	
Di-n-octyl phthalate	EPA 625	BMDL	ug/L	9.58	10	10/16/13 16:17	EC	
Dibenz [a,h] anthracene	EPA 625	BMDL	ug/L	4.78	5	10/16/13 16:17	EC	
1,2-Dichlorobenzene	EPA 625	BMDL	ug/L	7.97	10	10/16/13 16:17	EC	
1,3-Dichlorobenzene	EPA 625	BMDL	ug/L	7	10	10/16/13 16:17	EC	
1,4-Dichlorobenzene	EPA 625	BMDL	ug/L	1.38	5	10/16/13 16:17	EC	
3,3-Dichlorobenzidine	EPA 625	BMDL	ug/L	5.99	10	10/16/13 16:17	EC	
Diethyl phthalate	EPA 625	BMDL	ug/L	8.9	10	10/16/13 16:17	EC	
Dimethyl phthalate	EPA 625	BMDL	ug/L	7.49	10	10/16/13 16:17	EC	
Fluoranthene	EPA 625	BMDL	ug/L	4.45	5	10/16/13 16:17	EC	
Fluorene	EPA 625	BMDL	ug/L	5.47	10	10/16/13 16:17	EC	
Hexachlorobenzene	EPA 625	BMDL	ug/L	8.69	10	10/16/13 16:17	EC	
Hexachlorobutadiene	EPA 625	BMDL	ug/L	7.99	10	10/16/13 16:17	EC	
Hexachlorocyclopentadiene	EPA 625	BMDL	ug/L	7.9	10	10/16/13 16:17	EC	
Hexachloroethane	EPA 625	BMDL	ug/L	8.66	10	10/16/13 16:17	EC	
Indeno [1,2,3-cd] pyrene	EPA 625	BMDL	ug/L	6.05	10	10/16/13 16:17	EC	
Isophorone	EPA 625	BMDL	ug/L	9.88	10	10/16/13 16:17	EC	
Naphthalene	EPA 625	BMDL	ug/L	5.82	10	10/16/13 16:17	EC	
2,6-Dinitrotoluene	EPA 625	BMDL	ug/L	8.68	10	10/16/13 16:17	EC	
Nitrobenzene	EPA 625	BMDL	ug/L	7.28	10	10/16/13 16:17	EC	
N-nitroso-di-methylamine	EPA 625	BMDL	ug/L	3.02	5	10/16/13 16:17	EC	
N-nitroso-di-phenylamine	EPA 625	BMDL	ug/L	9.04	10	10/16/13 16:17	EC	
n-nitrosodi-n-propylamine	EPA 625	BMDL	ug/L	9.21	10	10/16/13 16:17	EC	
Phenanthrene	EPA 625	BMDL	ug/L	5.75	10	10/16/13 16:17	EC	
Pyrene	EPA 625	BMDL	ug/L	5.09	10	10/16/13 16:17	EC	
1,2,4-trichlorobenzene	EPA 625	BMDL	ug/L	7.71	10	10/16/13 16:17	EC	



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-1013
Date Received: 10/11/2013

Sample Number: 130842-01
Description: grab

Collection Date: 10/11/2013 8:05
Location: Effluent-PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
2,4-Dinitrotoluene	EPA 625	BMDL	ug/L	8.06	10	10/16/13 16:17	EC	
Surrogate		Recovery %	Target Range					
2-Fluorophenol		48.9	10-121					
phenol-d5		48.8	18-113					
Nitrobenzene-d5		48.1	15-120					
2-Fluorobiphenyl		47.8	26-115					
2,4,6-Tribromophenol		24.9	19-124					
p-Terphenyl-d14		34.4	18-137					
1,2-Dichloroethane-d4		101	80-120					
toluene-d8		100	80-120					
4-Bromofluorobenzene		105	80-120					



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Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-1013
Date Received: 10/11/2013

Sample Number: 130842-01
Description: grab

Collection Date: 10/11/2013 8:05
Location: Effluent-PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
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"Methods for Chemical Analysis of Water and Wastes" EPA, EMSL-CI, EPA 600/4-79-020, Rev. March 1979 & 1983.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.

EPA-821-R-98-002, February 1999.

State of Florida, NELAC Certification #E87542

Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.

The results shown relate only to these samples.

These results meet all of the requirements of the NELAC standard.

Qualifiers

- N10 = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit and should only be relied upon as an estimate.
- N13 = Percent recovery of the ICS standard was not within 10% as specified by the method.
- O4 = The matrix spike recovery of the compound was not within its target range.
- Q1 = Sample duplicate precision did not fall within laboratory specified limits, but all other QA/QC for the run met run criteria.

Staci Hickman

11/04/2013

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman, QA/QC Manager

Date

This person may be contacted for questions at the number listed above.



**ENVIRONMENTAL RESOURCE
ANALYSTS, INC.**

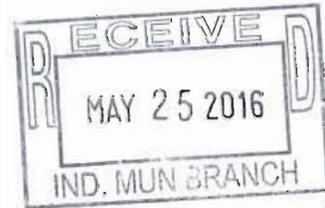
**2975 BROWN COURT
AUBURN, AL 36830
334-502-3444
(FAX) 334-502-8888**

**21 Years in Business, and counting
<http://www.eralab.com>**



**Laboratory Report
Permit Renewal
Report # 03-0315**

Prepared For Ashland
P.O. Box 365
Ashland, AL 36251



Attention: Brent Wheeler

Number of Pages in Report: 12

We appreciate the opportunity to provide testing results for you. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data, please do not hesitate to contact the Lab Manager or the Lab Director at the number listed above.

ADEM Cert Number: 41080

GA Cert Number: 836

NELAC Cert Number: E87542



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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
 Brent Wheeler
 P.O. Box 365
 Ashland, AL 36251

Report No 03-0315

Date Received: 3/18/2015

Location Effluent PP

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
145608-01									
Cyanide	<0.0050	mg/L		0.005	0.01	EPA 335.4(1993)	03/18/15 08:00	03/26/15 16:04	CR
DO	6.53	mg/L				SM 4500 OG-2001	03/18/15 08:00	03/18/15 15:52	BEH
Fecal Coliform	<1	MPN		1	1	Colilert-18®(Fecal Coliforms)	03/18/15 08:00	03/18/15 15:40	AF
Oil & Grease	<1.00	mg/L	Y	1	5	EPA 1664A	03/18/15 08:00	03/25/15 09:30	HK
pH	6.14	pH Units				EPA 150.1	03/18/15 08:00	03/18/15 15:50	BEH
Phenol	0.023	mg/L	N10	0.02	0.05	EPA 420.1(1978)	03/18/15 08:00	03/25/15 09:15	BEH
TRC	0.04	mg/L		0.017	0.23	EPA 330.5	03/18/15 08:00	03/18/15 15:55	BEH
145608-02									
Ammonia	0.820	mg N/L		0.1	0.2	EPA 350.1(1993)	03/18/15 06:00	03/20/15 16:02	CR
Antimony	<20.0	ug/L		20	25	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
Arsenic	<22.0	ug/L		22	50	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
Beryllium	<2.0	ug/L		2	5	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
Cadmium	<5.0	ug/L		5	10	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
Chromium	<10.0	ug/L		10	25	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
Copper	<6.0	ug/L		6	10	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
Hardness	44.3	mg/L CaCO3		3.4	3.4	SM 2340C-1997	03/18/15 06:00	03/20/15 10:00	AR
Lead	<27.0	ug/L		27	50	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
Nickel	<5.0	ug/L		5	10	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
NO2-/NO3	30.6	mg N/L		0.09	0.2	EPA 353.2(1993)	03/18/15 06:00	04/02/15 11:55	CR
Selenium	<20.0	ug/L		20	25	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
Silver	<4.2	ug/L	N2,N1	4.2	10	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
TDS	435	mg/L(Dry)		2	2	SM 2540C-1997	03/18/15 06:00	03/20/15 15:45	BEH
Thallium	<22.0	ug/L		22	25	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW
TKN	3.39	mg N/L		0.5	1.25	EPA 351.2(1993)	03/18/15 06:00	03/30/15 14:20	CR
T-Phosphorous	7.06	mg P/L		0.1	0.5	EPA 365.4(1974)	03/18/15 06:00	03/30/15 14:20	CR
Zinc	46.0	ug/L		13	25	EPA 200.7(1994)	03/18/15 06:00	03/20/15 15:44	HW



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

Staci Hickman

04/03/2015

Staci Hickman, QA/QC Manager

Date

This person may be contacted for questions at the number listed above.

"Methods for Chemical Analysis of Water and Wastes" EPA, EMSL-CI, EPA 600/4-79-020, Rev. March 1979 & 1983.

All collection and test times are reported as central standard time.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.

EPA-821-R-98-002, February 1999.

State of Florida, NELAC Certification #E87542

Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.

The results shown relate only to these samples.

These results meet all of the requirements of the NELAC standard.

Qualifiers

- N1 = The mid-range calibration standard recovery was not within +/- 5% when analyzed after initial calibration as specified by the method.
- N10 = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit and should only be relied upon as an estimate.
- N2 = The mid-range calibration standard recovery did not remain within the +/- 10% range throughout the run as specified by the method.
- Y = Second Source Std did not meet method specified requirements of 83-101% recovery.



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0315
Date Received: 3/18/2015

Sample Number: 145608-01
Description: grab

Collection Date: 03/18/2015 8:00
Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
Acrolein	EPA 624	BMDL	ug/L	22	50	03/23/15 20:37	EC	
Acrylonitrile	EPA 624	BMDL	ug/L	17.2	50	03/23/15 20:37	EC	
Benzene	EPA 624	BMDL	ug/L	1.46	5	03/23/15 20:37	EC	
bromoform	EPA 624	BMDL	ug/L	2.39	5	03/23/15 20:37	EC	
bromomethane	EPA 624	BMDL	ug/L	4.85	5	03/23/15 20:37	EC	
Carbon Tetrachloride	EPA 624	BMDL	ug/L	1.95	5	03/23/15 20:37	EC	
chlorobenzene	EPA 624	BMDL	ug/L	1.4	5	03/23/15 20:37	EC	
chlorodibromomethane	EPA 624	BMDL	ug/L	1.9	5	03/23/15 20:37	EC	
chloroethane	EPA 624	BMDL	ug/L	1.44	5	03/23/15 20:37	EC	
chloroform	EPA 624	BMDL	ug/L	1.34	5	03/23/15 20:37	EC	
chloromethane	EPA 624	BMDL	ug/L	2.72	5	03/23/15 20:37	EC	
2-Chloroethyl vinyl ether	EPA 624	BMDL	ug/L	3	10	03/23/15 20:37	EC	
dichlorobromomethane	EPA 624	BMDL	ug/L	1.81	5	03/23/15 20:37	EC	
1,2-Dichlorobenzene	EPA 624	BMDL	ug/L	1.6	5	03/23/15 20:37	EC	
1,3-Dichlorobenzene	EPA 624	BMDL	ug/L	1.41	5	03/23/15 20:37	EC	
1,4-Dichlorobenzene	EPA 624	BMDL	ug/L	1.47	5	03/23/15 20:37	EC	
1,1-dichloroethene	EPA 624	BMDL	ug/L	1.61	5	03/23/15 20:37	EC	
1,1-dichloroethane	EPA 624	BMDL	ug/L	1.99	5	03/23/15 20:37	EC	
1,2-dichloroethane	EPA 624	BMDL	ug/L	1.42	5	03/23/15 20:37	EC	
trans-1,2 Dichloroethene	EPA 624	BMDL	ug/L	1.56	5	03/23/15 20:37	EC	
1,3-dichloropropene	EPA 624	BMDL	ug/L	1.94	5	03/23/15 20:37	EC	
1,2-dichloropropane	EPA 624	BMDL	ug/L	1.29	5	03/23/15 20:37	EC	
Ethylbenzene	EPA 624	BMDL	ug/L	1.43	5	03/23/15 20:37	EC	
methylene chloride	EPA 624	BMDL	ug/L	1.51	5	03/23/15 20:37	EC	
tetrachloroethene	EPA 624	BMDL	ug/L	1.79	5	03/23/15 20:37	EC	
trichloroethene	EPA 624	BMDL	ug/L	1.53	5	03/23/15 20:37	EC	
Toluene	EPA 624	BMDL	ug/L	1.58	5	03/23/15 20:37	EC	
vinyl chloride	EPA 624	BMDL	ug/L	1.61	5	03/23/15 20:37	EC	
1,1,2,2-tetrachloroethane	EPA 624	BMDL	ug/L	1.63	5	03/23/15 20:37	EC	



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0315
Date Received: 3/18/2015

Sample Number: 145608-01
Description: grab

Collection Date: 03/18/2015 8:00
Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
1,1,2-trichloroethane	EPA 624	BMDL	ug/L	1.87	5	03/23/15 20:37	EC	
xylene, total	EPA 624	BMDL	ug/L	2.95	5	03/23/15 20:37	EC	
1,1,1-trichloroethane	EPA 624	BMDL	ug/L	1.85	5	03/23/15 20:37	EC	
para-chloro meta-cresol	EPA 625	BMDL	ug/L	6.16	10	03/27/15 1:49	EC	
2-chlorophenol	EPA 625	BMDL	ug/L	5.86	10	03/27/15 1:49	EC	
2,4-dichlorophenol	EPA 625	BMDL	ug/L	6.21	10	03/27/15 1:49	EC	
2,4-dimethylphenol	EPA 625	BMDL	ug/L	6.55	10	03/27/15 1:49	EC	
2-nitrophenol	EPA 625	BMDL	ug/L	5.17	10	03/27/15 1:49	EC	
4-nitrophenol	EPA 625	BMDL	ug/L	20.5	40	03/27/15 1:49	EC	
2,4-dinitrophenol	EPA 625	BMDL	ug/L	13.4	20	03/27/15 1:49	EC	
4,6-dinitro-o-cresol	EPA 625	BMDL	ug/L	8.02	10	03/27/15 1:49	EC	
Pentachlorophenol	EPA 625	BMDL	ug/L	5.26	10	03/27/15 1:49	EC	
Phenol	EPA 625	BMDL	ug/L	8.17	10	03/27/15 1:49	EC	
2,4,6-trichlorophenol	EPA 625	BMDL	ug/L	4.55	10	03/27/15 1:49	EC	
1,2-Diphenylhydrazine	EPA 625	BMDL	ug/L	8.85	10	03/27/15 1:49	EC	
Acenaphthene	EPA 625	BMDL	ug/L	7.08	10	03/27/15 1:49	EC	
Acenaphthylene	EPA 625	BMDL	ug/L	4.07	10	03/27/15 1:49	EC	
Anthracene	EPA 625	BMDL	ug/L	6.66	10	03/27/15 1:49	EC	
Benzidine	EPA 625	BMDL	ug/L	34.7	40	03/27/15 1:49	EC	
benzo (a) anthracene	EPA 625	BMDL	ug/L	5.1	10	03/27/15 1:49	EC	
benzo (ghi)perylene	EPA 625	BMDL	ug/L	5.58	10	03/27/15 1:49	EC	
Benzo(A)Pyrene	EPA 625	BMDL	ug/L	5.61	10	03/27/15 1:49	EC	
benzo(b)fluoranthene	EPA 625	BMDL	ug/L	6.56	10	03/27/15 1:49	EC	
benzo(k)fluoranthene	EPA 625	BMDL	ug/L	6.73	10	03/27/15 1:49	EC	
Bis (2-chloroethyl) Ether	EPA 625	BMDL	ug/L	8.42	10	03/27/15 1:49	EC	
bis(2-Chloroethoxy)methane	EPA 625	BMDL	ug/L	5.48	10	03/27/15 1:49	EC	
bis(2-chloroisopropyl)ethe	EPA 625	BMDL	ug/L	9.55	10	03/27/15 1:49	EC	
bis(2-Ethylhexyl)phthalate	EPA 625	BMDL	ug/L	7.58	10	03/27/15 1:49	EC	
Butylbenzyl phthalate	EPA 625	BMDL	ug/L	7.35	10	03/27/15 1:49	EC	



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0315
Date Received: 3/18/2015

Sample Number: 145608-01
Description: grab

Collection Date: 03/18/2015 8:00
Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
4-Bromophenyl-phenyl ether	EPA 625	BMDL	ug/L	7.07	10	03/27/15 1:49	EC	
2-Chloronaphthalene	EPA 625	BMDL	ug/L	5.72	10	03/27/15 1:49	EC	
4-chlorophenyl-phenyl ether	EPA 625	BMDL	ug/L	6.33	10	03/27/15 1:49	EC	
Chrysene	EPA 625	BMDL	ug/L	4.17	10	03/27/15 1:49	EC	
Di-n-butyl phthalate	EPA 625	BMDL	ug/L	5.61	10	03/27/15 1:49	EC	
Di-n-octyl phthalate	EPA 625	BMDL	ug/L	5.28	10	03/27/15 1:49	EC	
Dibenzo [a,h] anthracene	EPA 625	BMDL	ug/L	4.66	10	03/27/15 1:49	EC	
1,2-Dichlorobenzene	EPA 625	BMDL	ug/L	1.6	5	03/27/15 1:49	EC	
1,3-Dichlorobenzene	EPA 625	BMDL	ug/L	1.41	5	03/27/15 1:49	EC	
1,4-Dichlorobenzene	EPA 625	BMDL	ug/L	1.47	5	03/27/15 1:49	EC	
3,3-Dichlorobenzidine	EPA 625	BMDL	ug/L	12.2	20	03/27/15 1:49	EC	
Diethyl phthalate	EPA 625	BMDL	ug/L	4.73	10	03/27/15 1:49	EC	
Dimethyl phthalate	EPA 625	BMDL	ug/L	4.92	10	03/27/15 1:49	EC	
Fluoranthene	EPA 625	BMDL	ug/L	5.8	10	03/27/15 1:49	EC	
Fluorene	EPA 625	BMDL	ug/L	5.38	10	03/27/15 1:49	EC	
Hexachlorobenzene	EPA 625	BMDL	ug/L	5.82	10	03/27/15 1:49	EC	
Hexachlorobutadiene	EPA 625	BMDL	ug/L	8.69	10	03/27/15 1:49	EC	
Hexachlorocyclopentadiene	EPA 625	BMDL	ug/L	6.93	10	03/27/15 1:49	EC	
Hexachloroethane	EPA 625	BMDL	ug/L	8.78	10	03/27/15 1:49	EC	
Indeno [1,2,3-cd] pyrene	EPA 625	BMDL	ug/L	7.43	10	03/27/15 1:49	EC	
Isophorone	EPA 625	BMDL	ug/L	7.55	10	03/27/15 1:49	EC	
Naphthalene	EPA 625	BMDL	ug/L	5.04	10	03/27/15 1:49	EC	
2,6-Dinitrotoluene	EPA 625	BMDL	ug/L	6.3	10	03/27/15 1:49	EC	
Nitrobenzene	EPA 625	BMDL	ug/L	5.09	10	03/27/15 1:49	EC	
N-nitroso-di-methylamine	EPA 625	BMDL	ug/L	7.66	10	03/27/15 1:49	EC	
N-nitroso-di-phenylamine	EPA 625	BMDL	ug/L	5.32	10	03/27/15 1:49	EC	
n-nitrosodi-n-propylamine	EPA 625	BMDL	ug/L	8.16	10	03/27/15 1:49	EC	
Phenanthrene	EPA 625	BMDL	ug/L	5.66	10	03/27/15 1:49	EC	
Pyrene	EPA 625	BMDL	ug/L	4.87	10	03/27/15 1:49	EC	



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0315
Date Received: 3/18/2015

Sample Number: 145608-01
Description: grab

Collection Date: 03/18/2015 8:00
Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
1,2,4-trichlorobenzene	EPA 625	BMDL	ug/L	9.43	10	03/27/15 1:49	EC	
2,4-Dinitrotoluene	EPA 625	BMDL	ug/L	4.91	10	03/27/15 1:49	EC	
Surrogate		Recovery %		Target Range				
2-Fluorophenol		35.5		10-121				
phenol-d5		26.0		18-113				
Nitrobenzene-d5		78.2		15-120				
2-Fluorobiphenyl		79.1		26-115				
2,4,6-Tribromophenol		72.7		19-124				
p-Terphenyl-d14		82.7		18-137				
1,2-Dichloroethane-d4		94.9		85-115				
toluene-d8		102		85-115				
4-Bromofluorobenzene		97.0		85-115				



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Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0315
Date Received: 3/18/2015

Sample Number: 145608-01
Description: grab

Collection Date: 03/18/2015 8:00
Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
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"Methods for Chemical Analysis of Water and Wastes" EPA, EMSL-CI, EPA 600/4-79-020, Rev. March 1979 & 1983.

All collection and test times are reported as central standard time.
EPA- Methods for Chemical Analysis of Water and Wastes, 1994.
EPA-821-R-98-002, February 1999.
State of Florida, NELAC Certification #E87542
Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.
The results shown relate only to these samples.
These results meet all of the requirements of the NELAC standard.

Qualifiers

- N1 = The mid-range calibration standard recovery was not within +/- 5% when analyzed after initial calibration as specified by the method.
- N10 = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit and should only be relied upon as an estimate.
- N2 = The mid-range calibration standard recovery did not remain within the +/- 10% range throughout the run as specified by the method.
- Y = Second Source Std did not meet method specified requirements of 83-101% recovery.

Staci Hickman

04/03/2015

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman, QA/QC Manager

Date

This person may be contacted for questions at the number listed above.



**ENVIRONMENTAL RESOURCE
ANALYSTS, INC.**

2975 BROWN COURT
AUBURN, AL 36830
334-502-3444
(FAX) 334-502-8888

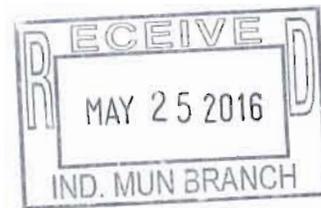
21 Years in Business, and counting
<http://www.eralab.com>



**Laboratory Report
2014 Permit Renewal**

Report # 03-~~07~~14
06

Prepared For Ashland
P.O. Box 365
Ashland, AL 36251



Attention: Brent Wheeler

Number of Pages in Report: 12

We appreciate the opportunity to provide testing results for you. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data, please do not hesitate to contact the Lab Manager or the Lab Director at the number listed above.

ADEM Cert Number: 41080

GA Cert Number: 836

NELAC Cert Number: E87542



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ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
 Brent Wheeler
 P.O. Box 365
 Ashland, AL 36251

Report No 03-0614

Date Received: 6/18/2014

Location Effluent PP

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
137708-01									
Cyanide	<0.006	mg/L		0.006	0.01	EPA 335.4(1993)	06/18/14 07:25	06/26/14 16:20	CR
DO	8.29	mg/L				SM 4500 OG-2001	06/18/14 07:25	06/18/14 17:42	BEH
Fecal Coliform	14	MPN	H3	1	1	Colilert-18®(Fecal Coliforms)	06/18/14 07:25	06/18/14 17:15	MO
Oil & Grease	0.543	mg/L	N10	0.5	5	EPA 1664A	06/18/14 07:25	06/23/14 14:30	HK
pH	6.41	pH Units				EPA 150.1	06/18/14 07:25	06/18/14 17:48	BEH
Phenol	0.047	mg/L	N10	0.02	0.05	EPA 420.1(1978)	06/18/14 07:25	06/19/14 14:30	BEH
TRC	<0.05	mg/L		0.05	0.05	EPA 330.5	06/18/14 07:25	06/18/14 17:45	BEH
137708-02									
Ammonia	0.197	mg N/L	N10	0.05	0.2	EPA 350.1(1993)	06/18/14 06:00	06/24/14 12:41	CR
Antimony	<35.0	ug/L		35	50	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
Arsenic	<30.0	ug/L		30	50	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
Beryllium	<3.0	ug/L		3	5	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
Cadmium	<4.0	ug/L		4	10	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
Chromium	<10.0	ug/L		10	25	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
Copper	11.9	ug/L		5	10	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
Hardness	62.4	mg/L CaCO2		4.3	4.3	SM 2340C-1997	06/18/14 06:00	06/27/14 11:30	BEH
Lead	<20.0	ug/L		20	50	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
Nickel	<6.0	ug/L		6	10	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
NO2-/NO3	38.8	mg N/L		0.225	0.5	EPA 353.2(1993)	06/18/14 06:00	07/01/14 15:39	CR
Selenium	<20.0	ug/L		20	50	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
Silver	<3.0	ug/L		3	10	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
TDS	488	mg/L(Dry)		2	2	SM 2540C-1997	06/18/14 06:00	06/20/14 16:30	BEH
Thallium	<25.0	ug/L		25	50	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW
TKN	0.899	mg N/L	N10	0.5	1.25	EPA 351.2(1993)	06/18/14 06:00	06/27/14 12:45	CR
T-Phosphorous	7.45	mg P/L		0.12	0.5	EPA 365.4(1974)	06/18/14 06:00	06/27/14 12:45	CR
Zinc	92.0	ug/L		12	25	EPA 200.7(1994)	06/18/14 06:00	06/25/14 11:30	HW



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

MDL: Method Detection Limit
PQL: Practical Quantitation Limit

Staci Hickman

07/29/2014

Staci Hickman, QA/QC Manager

Date

This person may be contacted for questions at the number listed above.

"Methods for Chemical Analysis of Water and Wastes" EPA, EMSL-CI, EPA 600/4-79-020, Rev. March 1979 & 1983.

All collection and test times are reported as central standard time.

EPA- Methods for Chemical Analysis of Water and Wastes, 1994.

EPA-821-R-98-002, February 1999.

State of Florida, NELAC Certification #E87542

Std. Methods for the Exam. Of Water and Wastewater, 20th Ed.

The results shown relate only to these samples.

These results meet all of the requirements of the NELAC standard.

Qualifiers

- H3 = Sample was received and analyzed past holding time.
- N10 = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit and should only be relied upon as an estimate.
- O4 = The matrix spike recovery of the compound was not within its target range.
- O41 = For the sample spike and spike duplicate, the specified precision of 0-20% was not met for this compound.



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0614
Date Received: 6/18/2014

Sample Number: 137708-01
Description: grab

Collection Date: 06/18/2014 7:25
Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
Acrolein	EPA 624	BMDL	ug/L	43.2	50	06/25/14 0:56	EC	O41
Acrylonitrile	EPA 624	BMDL	ug/L	12.6	50	06/25/14 0:56	EC	
Benzene	EPA 624	BMDL	ug/L	1.11	5	06/25/14 0:56	EC	
bromoform	EPA 624	BMDL	ug/L	1.55	5	06/25/14 0:56	EC	
bromomethane	EPA 624	BMDL	ug/L	2.71	5	06/25/14 0:56	EC	O41
Carbon Tetrachloride	EPA 624	BMDL	ug/L	0.851	5	06/25/14 0:56	EC	
chlorobenzene	EPA 624	BMDL	ug/L	1.35	5	06/25/14 0:56	EC	
chlorodibromomethane	EPA 624	BMDL	ug/L	2.22	5	06/25/14 0:56	EC	
chloroethane	EPA 624	BMDL	ug/L	1.43	5	06/25/14 0:56	EC	
chloroform	EPA 624	4.95	ug/L	0.949	5	06/25/14 0:56	EC	
chloromethane	EPA 624	BMDL	ug/L	1.13	5	06/25/14 0:56	EC	
2-Chloroethyl vinyl ether	EPA 624	BMDL	ug/L	3.16	10	06/25/14 0:56	EC	
dichlorobromomethane	EPA 624	BMDL	ug/L	1.11	5	06/25/14 0:56	EC	
1,2-Dichlorobenzene	EPA 624	BMDL	ug/L	1.14	5	06/25/14 0:56	EC	
1,3-Dichlorobenzene	EPA 624	BMDL	ug/L	0.672	5	06/25/14 0:56	EC	
1,4-Dichlorobenzene	EPA 624	BMDL	ug/L	6.49	10	06/25/14 0:56	EC	
1,1-dichloroethene	EPA 624	BMDL	ug/L	0.73	5	06/25/14 0:56	EC	
1,1-dichloroethane	EPA 624	BMDL	ug/L	1.23	5	06/25/14 0:56	EC	
1,2-dichloroethane	EPA 624	BMDL	ug/L	1.44	5	06/25/14 0:56	EC	
trans-1,2 Dichloroethene	EPA 624	BMDL	ug/L	1.54	5	06/25/14 0:56	EC	
1,3-dichloropropene	EPA 624	BMDL	ug/L	1.94	5	06/25/14 0:56	EC	O4
1,2-dichlororpropane	EPA 624	BMDL	ug/L	1.49	5	06/25/14 0:56	EC	
Ethylbenzene	EPA 624	BMDL	ug/L	1.19	5	06/25/14 0:56	EC	
methylene chloride	EPA 624	BMDL	ug/L	3.3	5	06/25/14 0:56	EC	
tetrachloroethene	EPA 624	BMDL	ug/L	0.934	5	06/25/14 0:56	EC	
trichloroethene	EPA 624	BMDL	ug/L	0.875	5	06/25/14 0:56	EC	
Toluene	EPA 624	BMDL	ug/L	1.49	5	06/25/14 0:56	EC	
vinyl chloride	EPA 624	BMDL	ug/L	2.44	5	06/25/14 0:56	EC	
1,1,2,2-tetrachloroethane	EPA 624	BMDL	ug/L	1.04	5	06/25/14 0:56	EC	



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0614
Date Received: 6/18/2014

Sample Number: 137708-01

Collection Date: 06/18/2014 7:25

Description: grab

Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
1,1,2-trichloroethane	EPA 624	BMDL	ug/L	1.66	5	06/25/14 0:56	EC	
xylene, total	EPA 624	BMDL	ug/L	1.78	5	06/25/14 0:56	EC	
1,1,1-trichloroethane	EPA 624	BMDL	ug/L	1.1	5	06/25/14 0:56	EC	
para-chloro meta-cresol	EPA 625	BMDL	ug/L	5.52	10	07/02/14 4:32	EC	
2-chlorophenol	EPA 625	BMDL	ug/L	6.09	10	07/02/14 4:32	EC	
2,4-dichlorophenol	EPA 625	BMDL	ug/L	4.63	10	07/02/14 4:32	EC	
2,4-dimethylphenol	EPA 625	BMDL	ug/L	8.63	10	07/02/14 4:32	EC	
2-nitrophenol	EPA 625	BMDL	ug/L	8.68	10	07/02/14 4:32	EC	
4-nitrophenol	EPA 625	BMDL	ug/L	7.8	10	07/02/14 4:32	EC	
2,4-dinitrophenol	EPA 625	BMDL	ug/L	12.8	20	07/02/14 4:32	EC	
4,6-dinitro-o-cresol	EPA 625	BMDL	ug/L	6.11	10	07/02/14 4:32	EC	
Pentachlorophenol	EPA 625	BMDL	ug/L	4.63	10	07/02/14 4:32	EC	
Phenol	EPA 625	BMDL	ug/L	6.45	10	07/02/14 4:32	EC	
2,4,6-trichlorophenol	EPA 625	BMDL	ug/L	4.31	10	07/02/14 4:32	EC	
1,2-Diphenylhydrazine	EPA 625	BMDL	ug/L	8.45	10	07/02/14 4:32	EC	
Acenaphthene	EPA 625	BMDL	ug/L	5.58	10	07/02/14 4:32	EC	
Acenaphthylene	EPA 625	BMDL	ug/L	6.33	10	07/02/14 4:32	EC	
Anthracene	EPA 625	BMDL	ug/L	5.63	10	07/02/14 4:32	EC	
Benzidine	EPA 625	BMDL	ug/L	9.57	40	07/02/14 4:32	EC	
benzo (a) anthracene	EPA 625	BMDL	ug/L	5.83	10	07/02/14 4:32	EC	
benzo (ghi)perylene	EPA 625	BMDL	ug/L	8.58	10	07/02/14 4:32	EC	
Benzo(A)Pyrene	EPA 625	BMDL	ug/L	6.19	10	07/02/14 4:32	EC	
benzo(b)fluoranthene	EPA 625	BMDL	ug/L	5.35	10	07/02/14 4:32	EC	
benzo(k)fluoranthene	EPA 625	BMDL	ug/L	8.56	10	07/02/14 4:32	EC	
Bis (2-chloroethyl) Ether	EPA 625	BMDL	ug/L	8.72	10	07/02/14 4:32	EC	
bis(2-Chloroethoxy)methane	EPA 625	BMDL	ug/L	7.34	10	07/02/14 4:32	EC	
bis(2-chloroisopropyl)ethe	EPA 625	BMDL	ug/L	9.82	10	07/02/14 4:32	EC	
bis(2-Ethylhexyl)phthalate	EPA 625	BMDL	ug/L	8.02	10	07/02/14 4:32	EC	
Butylbenzyl phthalate	EPA 625	BMDL	ug/L	7.98	10	07/02/14 4:32	EC	



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0614
Date Received: 6/18/2014

Sample Number: 137708-01
Description: grab

Collection Date: 06/18/2014 7:25
Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
4-Bromophenyl-phenyl ether	EPA 625	BMDL	ug/L	5.66	10	07/02/14 4:32	EC	
2-Chloronaphthalene	EPA 625	BMDL	ug/L	5.88	10	07/02/14 4:32	EC	
4-chlorophenyl-phenyl ether	EPA 625	BMDL	ug/L	5.89	10	07/02/14 4:32	EC	
Chrysene	EPA 625	BMDL	ug/L	6.19	10	07/02/14 4:32	EC	
Di-n-butyl phthalate	EPA 625	BMDL	ug/L	6.88	10	07/02/14 4:32	EC	
Di-n-octyl phthalate	EPA 625	BMDL	ug/L	7.97	10	07/02/14 4:32	EC	
Dibenzo [a,h] anthracene	EPA 625	BMDL	ug/L	8.32	10	07/02/14 4:32	EC	
1,2-Dichlorobenzene	EPA 625	BMDL	ug/L	1.14	5	07/02/14 4:32	EC	
1,3-Dichlorobenzene	EPA 625	BMDL	ug/L	0.672	5	07/02/14 4:32	EC	
1,4-Dichlorobenzene	EPA 625	BMDL	ug/L	6.49	10	07/02/14 4:32	EC	
3,3-Dichlorobenzidine	EPA 625	BMDL	ug/L	7.11	10	07/02/14 4:32	EC	
Diethyl phthalate	EPA 625	BMDL	ug/L	7.6	10	07/02/14 4:32	EC	
Dimethyl phthalate	EPA 625	BMDL	ug/L	6.66	10	07/02/14 4:32	EC	
Fluoranthene	EPA 625	BMDL	ug/L	5.86	10	07/02/14 4:32	EC	
Fluorene	EPA 625	BMDL	ug/L	5.44	10	07/02/14 4:32	EC	
Hexachlorobenzene	EPA 625	BMDL	ug/L	6.87	10	07/02/14 4:32	EC	
Hexachlorobutadiene	EPA 625	BMDL	ug/L	5.54	10	07/02/14 4:32	EC	
Hexachlorocyclopentadiene	EPA 625	BMDL	ug/L	5.55	10	07/02/14 4:32	EC	
Hexachloroethane	EPA 625	BMDL	ug/L	8.93	10	07/02/14 4:32	EC	
Indeno [1,2,3-cd] pyrene	EPA 625	BMDL	ug/L	9.3	10	07/02/14 4:32	EC	
Isophorone	EPA 625	BMDL	ug/L	8.1	10	07/02/14 4:32	EC	
Naphthalene	EPA 625	BMDL	ug/L	4.78	10	07/02/14 4:32	EC	
2,6-Dinitrotoluene	EPA 625	BMDL	ug/L	7.49	10	07/02/14 4:32	EC	
Nitrobenzene	EPA 625	BMDL	ug/L	7.24	10	07/02/14 4:32	EC	
N-nitroso-di-methylamine	EPA 625	BMDL	ug/L	4.79	10	07/02/14 4:32	EC	
N-nitroso-di-phenylamine	EPA 625	BMDL	ug/L	6.43	10	07/02/14 4:32	EC	
n-nitrosodi-n-propylamine	EPA 625	BMDL	ug/L	8.15	10	07/02/14 4:32	EC	
Phenanthrene	EPA 625	BMDL	ug/L	6.01	10	07/02/14 4:32	EC	
Pyrene	EPA 625	BMDL	ug/L	6.38	10	07/02/14 4:32	EC	



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0614
Date Received: 6/18/2014

Sample Number: 137708-01
Description: grab

Collection Date: 06/18/2014 7:25
Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
TTO-624 and 625								
1,2,4-trichlorobenzene	EPA 625	BMDL	ug/L	5.37	10	07/02/14 4:32	EC	
2,4-Dinitrotoluene	EPA 625	BMDL	ug/L	8.25	10	07/02/14 4:32	EC	

Surrogate	Recovery %	Target Range
2-Fluorophenol	35.4	10-121
phenol-d5	24.9	18-113
Nitrobenzene-d5	95.6	15-120
2-Fluorobiphenyl	97.2	26-115
2,4,6-Tribromophenol	72.2	19-124
p-Terphenyl-d14	101	18-137
1,2-Dichloroethane-d4	96.7	85-115
toluene-d8	98.8	85-115
4-Bromofluorobenzene	104	85-115



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Laboratory Report

Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report Number: 03-0614
Date Received: 6/18/2014

Sample Number: 137708-01
Description: grab

Collection Date: 06/18/2014 7:25
Location: Effluent PP

Test	Method	Result	Units	MDL	PQL	Date / Time	Analyst	Qual.
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"Methods for Chemical Analysis of Water and Wastes" EPA, EMSL-CI, EPA 600/4-79-020, Rev. March 1979 & 1983.

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State of Florida, NELAC Certification #E87542

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These results meet all of the requirements of the NELAC standard.

Qualifiers

- N10 = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit and should only be relied upon as an estimate.
- O4 = The matrix spike recovery of the compound was not within its target range.
- O41 = For the sample spike and spike duplicate, the specified precision of 0-20% was not met for this compound.

Staci Hickman

07/29/2014

Staci Hickman, QA/QC Manager

Date

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

This person may be contacted for questions at the number listed above.

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

June 22, 2011
Work Order: 1105158

Laboratory Report

Project Name		Ashland Effluent 103693-03						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Ashland Eff						
Matrix		Wastewater						
SAL Sample Number		1105158-01						
Date/Time Collected		06/13/11 00:00						
Collected by		Client						
Date/Time Received		06/15/11 12:45						
Metals								
Mercury	ug/L	0.0023	EPA 1631	0.00040	0.00020	06/17/11 09:33	06/22/11 09:00	AWS



SOUTHERN ANALYTICAL LABORATORIES, INC.

BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-655-2218



July 26, 2011

Work Order: 1106405

Environmental Resource Analysts, Inc.

2975 Brown Court

Auburn, AL 36830

Laboratory Report

Project Name		Ashland 104432						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1106405-01						
Date/Time Collected		07/06/11 11:13						
Collected by		Client						
Date/Time Received		07/22/11 10:30						
Metals								
Mercury	ug/L	0.0036	EPA 1631	0.00040	0.00020	07/25/11 08:35	07/26/11 12:51	AWS

SOUTHERN ANALYTICAL LABORATORIES, INC.

BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

November 7, 2011
Work Order: 1109913

Laboratory Report

Project Name		Ashland 107559						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Ashland Effluent						
Matrix		Wastewater						
SAL Sample Number		1109913-01						
Date/Time Collected		10/05/11 07:15						
Collected by		Client						
Date/Time Received		10/27/11 10:30						
Metals								
Arsenic	mg/L	0.010	EPA 200.8	0.0050	0.00093	10/27/11 15:59	11/04/11 11:25	VWC
Mercury	ug/L	0.0035	EPA 1631	0.00040	0.00020	11/02/11 11:54	11/02/11 13:10	VWC

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

April 26, 2012
Work Order: 1204270

Laboratory Report

Project Name		Ashland 113009						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent Ashland 113009						
Matrix		Wastewater						
SAL Sample Number		1204270-01						
Date/Time Collected		04/16/12 08:00						
Collected by		Client						
Date/Time Received		04/19/12 12:45						
Metals								
Mercury	ug/L	0.0056	EPA 1631	0.00040	0.00020	04/25/12 07:52	04/26/12 08:48	AWS

SOUTHERN ANALYTICAL LABORATORIES, INC.

BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
575 Brown Court
Auburn, AL 36830

November 1, 2012
Work Order: 1212446

Laboratory Report

Project Name Ashland/ Effluent

Sample Description 119161
Matrix Wastewater
SAL Sample Number 1212446-01
Date/Time Collected 10/03/12 10:30
Collected by Client
Date/Time Received 10/24/12 10:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Mercury	ug/L	0.0053	EPA 1631	0.00040	0.00020	10/26/12 10:37	10/30/12 15:45	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

May 7, 2013
Work Order: 1304369

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo
Sample Description	124600-03
Matrix	Wastewater
SAL Sample Number	1304369-02
Date/Time Collected	04/03/13 09:30
Collected by	Client
Date/Time Received	04/24/13 10:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Mercury	ug/L	0.010	EPA 1631	0.00040	0.00020	04/27/13 08:55	05/02/13 10:14	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

10 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

July 26, 2013
Work Order: 1307411

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo							
Sample Description	127253-03							
Matrix	Wastewater							
SAL Sample Number	1307411-01							
Date/Time Collected	07/03/13 09:30							
Collected by	Client							
Date/Time Received	07/18/13 10:50							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Mercury	ug/L	0.0030	EPA 1631	0.00040	0.00020	07/24/13 12:44	07/26/13 08:38	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

November 4, 2013
Work Order: 1311656

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo							
Sample Description	130842-01							
Matrix	Wastewater							
SAL Sample Number	1311656-01							
Date/Time Collected	10/11/13 08:05							
Collected by	Client							
Date/Time Received	10/30/13 12:30							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Mercury	ug/L	0.016	EPA 1631	0.00040	0.00020	10/31/13 11:16	11/01/13 14:54	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

November 4, 2013
Work Order: 1311656

* Qualifiers, Notes and Definitions

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limits and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

For methods marked with **, all QC criteria have been met for this method which is equivalent to a SAL certified method.

Test results in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below.

Questions regarding this report should be directed to :

Kathryn Nordmark
Telephone (813) 855-1844 FAX (813) 855-2218
Kathryn@southemanalyticalabs.com

A handwritten signature in black ink, appearing to read "Francis I. Daniels".



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

Standard 1311656
 Expedite (Addition Fees Apply)
 Date Required

Client: Ashland Water Works & Sewer Bo
 Project: 03-1013

Sample No.	Location	Collector	Date/Time Sample	Composite Sample(s)		Analytical Measurements Taken By ERA						
				First Subsample	Last Subsample	Test	Analyst	Date/Time	Meter #	Probe #		
130842-01	Effluent-PP		10/11/2013 8:05:00 AM	grab								
130842-02	Effluent-PP		10/11/2013 6:00:00 AM	comp								

Sample No.	Location	Collector	Date/Time Sample	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	naoh/aa	GN	10/11/2013 6:00:00 AM		-01b	H2SO4	Phenol	
-01c	H2SO4	O&G			-01d	None	subcontract <u>1114g</u>	
-01f	na2s2o3	ITO-624 and 625			-01g	None	Fecal Coliforms	
-02a	None	Hardness, IDS			-02b	HNO3	ICP Metals	
-02e	H2SO4	Phosphate, TKN			-02d	H2SO4	NO2-NO3	
-02e	H2SO4	AMMONIA						

Relinquished By: D. Doons Date/Time: 10/13 1340 Received By: WFS Date/Time: _____
 Relinquished By: WFS Date/Time: _____ Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: K. Madhavan Date/Time: 10/30/13 12:30 Method of Transfer: _____ Arrival Temp (C): _____

250M61, 11/1/13



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ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

Standard
 Expedite (Addition Fees Apply)

Date Required _____

Client: Ashland Water Works & Sewer Bo
 Project: 03-1013

G or C	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
	Subsample Frequency	First Subsample		Last Subsample	Analyst	Date/Time

Sample No.	130842-01	grab				
Location	Effluent-PP					
Collector	B. R. R. O. O.					
Date/Time Sampl	10-11-13 8:05					

Sample No.	130842-02	1/4 hr	10-10-13 0700	10-11-13 0600		
Location	Effluent-PP	comp				
Collector	B. R. R. O. O.					
Date/Time Sampl	10-11-13 7:05					

Sample	Preservation	Analysis	Preservation	Sample	Preservation	Analysis	Preservation CK
-01a	naoh/aa	CN-	H2SO4	-01b	H2SO4	Phenol	pH ≤ 2.0
-01c	H2SO4	O&G	None	-01d	None	subcontract	BA
-01f	na2s2o3	TTO-624 and 625	None	-01g	None	Fecal Coliforms	BA
-02a	None	Hardness, TDS	HNO3	-02b	HNO3	ICP Metals	Gold Ind. pH ≤ 2.0
-02c	H2SO4	Phosphate, TKN	H2SO4	-02d	H2SO4	NO2-/NO3	pH ≤ 2.0
-02e	H2SO4	AMMONIA					

Relinquished By: B. R. R. O. O. Date/Time: 10-11-13 11:20 Received By: Bunt New Date/Time: 10-11-13 11:20
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: Bunt New Date/Time: 10-11-13 15:05 Method of Transfer: ERA Arrival Temp (C): 2.6°

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

January 30, 2014
Work Order: 1400946

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 133368-03
Matrix Wastewater
SAL Sample Number 1400946-02
Date/Time Collected 01/08/14 08:30
Collected by Client
Date/Time Received 01/24/14 11:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Client Provided Field Data

Metals

Mercury	ug/L	0.017	EPA 1631	0.00040	0.00020	01/24/14 09:00	01/28/14 14:48	1
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SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

July 11, 2014
Work Order: 1406622

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 137708-01
Matrix Wastewater
SAL Sample Number 1406622-01
Date/Time Collected 06/18/14 07:25
Collected by Client
Date/Time Received 06/26/14 11:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Mercury	ug/L	0.0079	EPA 1631	0.00040	0.00020	07/10/14 14:15	07/11/14 08:32	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

July 11, 2014
Work Order: 1406622

* Qualifiers, Notes and Definitions

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limits and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

For methods marked with **, all QC criteria have been met for this method which is equivalent to a SAL certified method.

Test results in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below.

Questions regarding this report should be directed to :

Kathryn Nordmark
Telephone (813) 855-1844 FAX (813) 855-2218
Kathryn@southernanalyticallabs.com



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 302-3444 Fax (334) 502-8888

Standard Expedite (Addition Fees Apply)
 Date Required _____

1406622

Client: Ashland Water Works & Sewer Bo
 Project: 03-0614

Sample No.	Location	Collector	Date/Time Sampl	Composite Sample(s)		Analytical Measurements Taken By ERA							
				Subsample Frequency	Subsample	Test	Analyst	Date/Time	Meter #	Probe #			
137708-01	Effluent PP		6/18/2014 7:25:00 AM	grab									

Sample No.	Location	Collector	Date/Time Sampl	Composite Sample(s)		Analytical Measurements Taken By ERA							
				Subsample Frequency	Subsample	Test	Analyst	Date/Time	Meter #	Probe #			
137708-02	Effluent PP		6/18/2014 6:00:00 AM	comp									

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Preservation	CK
-01a	None	DO, pH, TRC	-01b	None	Fecal Coliforms		
-01c	H2SO4	O&G	-01d	H2SO4	Phenol		
-01e	naOH/aa	CN-	-01f	None	LLHg		
-01g	NAZSO3	TIO-524 and 625	-02a	None	HDS		
-02b	None	Hardness	-02c	H2SO4	AMMONIA		
-02d	H2SO4	Phosphate, P&A	-02e	H2SO4	NO2-NO3		
-02f	HNO3	ICP-Metals					

Relinquished By: [Signature] Date/Time: 6/26/14 11:30 Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
 Relinquished By: WPS Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: K. Nishimura Date/Time: 6/26/14 11:30 Method of Transfer: _____ Arrival Temp (C): _____



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

Standard
 Expedite (Addition Fees Apply)
 Date Required

Client: Ashland Water Works & Sewer Bo
 Project: 03-0614

G or C	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
	Subsample Frequency	First Subsample		Last Subsample	Analyst	Date/Time

Sample No.	137708-01	grab	PH: 6.41	BA	6-18-14 17:48	SP703	15
Location	Effluent PP		DO: 8.29	BA	6-18-14 17:42	YS11-YS12	YS11-YS12
Collector	B. D. W. L.		TRC: 0.04	BA	6-18-14 17:45	TRC #3	-
Date/Time Sampl	6-18-14 7:25						

Sample No.	137708-02	1/2 hr	6-17-14	6-18-14			
Location	Effluent PP						
Collector	B. D. W. L.		0700	0600			
Date/Time Sampl	6-18-14 7:10						

Sample	Preservation	Analysis	Sample	Preservation	Analysis	Preservation CK
-01a	None	DO, pH, TRC	-01b	None	Fecal Coliforms	BA
-01c	H2SO4	O&G	-01d	H2SO4	Phenol	pH ≤ 2.0
-01e	naoh/aa	CN-	-01f	None	LLHg	BA
-01g	NA2S2O3	TTO-624 and 625	-02a	None	TDS	BA
-02b	None	Hardness	-02c	H2SO4	AMMONIA	pH ≤ 2.0
-02d	H2SO4	Phosphate, TKN	-02e	H2SO4	NO2-/NO3	pH ≤ 2.0
-02f	HNO3	ICP Metals				add HNO3, pH ≤ 2.0

Relinquished By: B. D. W. L. Received By: B. D. W. L. Date/Time: 6-18-14 12:00 Date/Time: 6-18-14 12:00
 Relinquished By: _____ Received By: _____ Date/Time: _____ Date/Time: _____
 Relinquished By: _____ Received By: _____ Date/Time: _____ Date/Time: _____

Received at Lab By: B. D. W. L. Date/Time: 6-18-14 17:15 Method of Transfer: ERA Arrival Temp (C): 3.8

END OF REPORT

SOUTHERN ANALYTICAL LABORATORIES, INC.

100 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

August 1, 2014
Work Order: 1407697

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo
Sample Description	138424-03
Matrix	Wastewater
SAL Sample Number	1407697-01
Date/Time Collected	07/09/14 09:00
Collected by	Client
Date/Time Received	07/23/14 11:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Mercury	ug/L	0.012	EPA 1631	0.00040	0.00020	07/31/14 12:53	08/01/14 08:42	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

October 29, 2014
Work Order: 1411374

Laboratory Report

Project Name	Ashland Water Works and Sewer							
Sample Description	140989-03							
Matrix	Wastewater							
SAL Sample Number	1411374-01							
Date/Time Collected	10/01/14 09:00							
Collected by	Client							
Date/Time Received	10/21/14 12:15							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Mercury	ug/L	0.019	EPA 1631	0.00040	0.00020	10/27/14 15:26	10/28/14 15:49	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 B13-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

March 30, 2015
Work Order: 1502892

Laboratory Report

Project Name	Ashland Water Works & Sewer							
Sample Description	145608-01							
Matrix	Wastewater							
SAL Sample Number	1502892-01							
Date/Time Collected	03/18/15 08:00							
Collected by	Client							
Date/Time Received	03/26/15 12:30							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Mercury	ug/L	0.0058	EPA 1631	0.00040	0.00020	03/27/15 11:49	03/30/15 12:16	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

March 30, 2015
Work Order: 1502892

* Qualifiers, Notes and Definitions

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limits and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

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Test results in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below.

Questions regarding this report should be directed to :

Kathryn Nordmark
Telephone (813) 855-1844 FAX (813) 855-2218
Kathryn@southernanalyticallabs.com



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.
 Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
 Tel. (334) 502-3444 Fax (334) 502-8888

Standard

Expedite (Addition Fees Apply)
 Date Required

1502892

Client: Ashland Water Works & Sewer Bo
 Project: 03-0315

G or C	Composite Sample(s)		Analytical Measurements Taken By ERA			
	Subsample Frequency	Last Subsample Date/Time	Test	Analyst	Date/Time	Meter # Probe #

Sample No.	145608-01	Location	Effluent PP	Collector		pH:	
Date/Time Sampled	3/18/2015 8:00:00 AM					DO:	
						TRC:	

Sample No.	145608-02	Location	Effluent PP	Collector			
Date/Time Sampled	3/18/2015 6:00:00 AM						

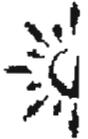
Sample	Preservation	Analysis	Sample	Preservation	Analysis	Preservation	CK
-01a	None	DO, pH, TRC	-01b	None	Fecal Coliforms		
-01c	H2SO4	O&G	-01d	H2SO4	Phenol		
-01e	naoh/aa	CN-	-01f	None	LLHg		
-01g	NA2S2O3	TTO-624 and 625	-02a	None	FDS		
-02b	None	Hardness	-02c	H2SO4	AMMONIA		
-02d	H2SO4	Phosphate, TKN	-02e	H2SO4	NO2-/NO3		
-02f	HNO3	ICP Metals					

Relinquished By: [Signature] Date/Time: 3-26-15 11:50 Received By: [Signature] Date/Time: _____
 Relinquished By: [Signature] Date/Time: _____ Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: _____ Date/Time: 3-26-15 12:30 Method of Transfer: _____ Arrival Temp (C): _____



CHAIN OF CUSTODY



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830
Tel. (334) 502-3444 Fax (334) 502-8888

Standard

Expedite (Additional Fees Apply)

Date Required

Client: Ashland Water Works & Sewer Bo

Project: 03-0614

0315

G or C	Composite Sample(s)		Test	Analytical Measurements Taken By ERA		
	Subsample Frequency	First Subsample Date/Time		Last Subsample Date/Time	Analyst	Date/Time

Sample No.	145608-01	grab							
Location	Effluent PP								
Collector	B. D. W. L. L.								
Date/Time Sampled	3-18-15 8:00								

Sample No.	145608-02	1/4 hr	3-17-15 0700	3-18-15 0600					
Location	Effluent PP								
Collector	B. D. W. L. L.								
Date/Time Sampled	3-18-15 7:30								

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	DO, pH, TRC	HK	-01b	None	Fecal Coliforms	HK
-01c	H2SO4	O&G	PHSL0	-01d	H2SO4	Phenol	PHSL0
-01e	naoh/aa	CN-	PHSL0	-01f	None	LLHg	HK
-01g	NA2S2O3	TTO-624 and 625	HK	-02a	None	TDS	↓
-02b	None	Hardness	HK	-02c	H2SO4	AMMONIA	PHSL0
-02d	H2SO4	Phosphate, TKN	PHSL0	-02e	H2SO4	NO2-/NO3	↓
-02f	HNO3	ICP Metals	HAU added PHSL0				

Relinquished By: B. D. W. L. L. Date/Time: 3-18-15 1100 Received By: HK Date/Time: 3-18-15 1100

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Received at Lab By: HK Date/Time: 3-18-15 1540 Method of Transfer: ERA Arrival Temp (C): 3.8

END OF REPORT

SOUTHERN ANALYTICAL LABORATORIES, INC.

10 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

May 8, 2015
Work Order: 1504343

Laboratory Report

Project Name	Ashland Water Works & Sewer							
Sample Description	146640-03							
Matrix	Water							
SAL Sample Number	1504343-01							
Date/Time Collected	04/20/15 08:45							
Collected by	Client							
Date/Time Received	05/01/15 12:15							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Mercury	ug/L	0.0012	EPA 1631	0.00040	0.00020	05/08/15 08:51	05/08/15 13:49	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

August 5, 2015
Work Order: 1507709

Laboratory Report

Project Name	Ashland Water Works & Sewer
Sample Description	148771-03
Matrix	Water
SAL Sample Number	1507709-01
Date/Time Collected	07/08/15 08:10
Collected by	Client
Date/Time Received	07/31/15 11:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Mercury	ug/L	0.0010	EPA 1631	0.00040	0.00020	08/04/15 11:28	08/05/15 09:20	1



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

November 3, 2015
Work Order: 1511283

Laboratory Report

Project Name	Ashland Water Work & Sewer Bo
Sample Description	151901-03
Matrix	Water
SAL Sample Number	1511283-01
Date/Time Collected	10/23/15 08:00
Collected by	Client
Date/Time Received	10/28/15 12:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Mercury	ug/L	0.012	EPA 1631	0.00040	0.00020	11/02/15 11:50	11/03/15 08:44	1



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

February 8, 2016
Work Order: 1601351

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo
Sample Description	153840-03
Matrix	Water
SAL Sample Number	1601351-01
Date/Time Collected	01/06/16 08:30
Collected by	Client
Date/Time Received	01/29/16 12:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Mercury	ug/L	0.0038	EPA 1631	0.00040	0.00020	02/05/16 08:30	02/05/16 14:55	1



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

May 16, 2016
Work Order: 1606222

Laboratory Report

Project Name	Ashland Water Works Sewer & Bo
Sample Description	156384-03
Matrix	Water
SAL Sample Number	1606222-01
Date/Time Collected	04/06/16 08:30
Collected by	Client
Date/Time Received	05/05/16 14:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Mercury	ug/L	0.0049	EPA 1631	0.00040	0.00020	05/10/16 08:16	05/13/16 15:30	1



Environmental Resource Analysts, Inc.
 Brown Court
 Tallahassee, FL 32309

February 3, 2012
 Work Order: 1200961

Laboratory Report

Project Name Ashland Effluent 140793-110553

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1200961-01						
Date/Time Collected		01/30/12 00:00						
Collected by		Client						
Date/Time Received		01/26/12 12:00						

Metals

Mercury	ug/L	0.016	EPA 1631	0.00040	0.00020	01/30/12 08:00	01/30/12 14:40	AWS
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Sample Description		Effluent						
Matrix		Drinking Water						
SAL Sample Number		1200961-02						
Date/Time Collected		01/04/12 00:00						
Collected by		Client						
Date/Time Received		01/26/12 12:00						

Metals

Arsenic	mg/L	0.011	EPA 200.8	0.0050	0.00093	01/30/12 15:59	02/01/12 12:37	AWS
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SOUTHERN ANALYTICAL LABORATORIES, INC.

10 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

August 7, 2012
Work Order: 1208340

Laboratory Report

Project Name		Ashland 116385						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1208340-01						
Date/Time Collected		07/04/12 10:00						
Collected by		Client						
Date/Time Received		07/31/12 10:30						
Metals								
Arsenic	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	07/30/12 12:48	08/01/12 17:56	AWS
Mercury	ug/L	0.0021	EPA 1631	0.00040	0.00020	08/04/12 10:25	08/06/12 09:26	AWS

SOUTHERN ANALYTICAL LABORATORIES, INC.

10 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

August 4, 2011
Work Order: 1106638

Laboratory Report

Project Name		Ashland 104432-02f/103693-02f						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1106638-01						
Date/Time Collected		07/06/11 00:00						
Collected by		Client						
Date/Time Received		07/27/11 10:45						

Metals

Arsenic	mg/L	0.0032	EPA 200.8	0.0050	0.00093	08/01/11 09:50	08/04/11 11:15	VWC
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Sample Description Effluent
Matrix Wastewater
SAL Sample Number 1106638-02
Date/Time Collected 06/13/11 00:00
Collected by Client
Date/Time Received 07/27/11 10:45

Metals

Arsenic	mg/L	0.0018	EPA 200.8	0.0050	0.00093	08/01/11 09:50	08/04/11 11:21	VWC
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SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

September 1, 2011
Work Order: 1107428

Laboratory Report

Project Name		Ashland Effluent 105419						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1107428-01						
Date/Time Collected		08/03/11 05:55						
Collected by		Client						
Date/Time Received		08/19/11 10:30						
Metals								
Arsenic	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	08/22/11 11:02	08/31/11 21:08	VWC

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

September 29, 2011
Work Order: 1108657

Laboratory Report

Project Name **Ashland 106547**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
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Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1108657-01						
Date/Time Collected		09/07/11 00:00						
Collected by		Client						
Date/Time Received		09/23/11 10:30						

Metals

Arsenic	mg/L	0.012	EPA 200.8	0.0050	0.00093	09/27/11 08:23	09/28/11 21:21	VWC
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110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

December 6, 2011
Work Order: 1111083

Laboratory Report

Project Name **Ashland 108713**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1111083-01						
Date/Time Collected		11/02/11 07:05						
Collected by		Client						
Date/Time Received		11/28/11 09:05						

Metals

Arsenic	mg/L	0.015	EPA 200.8	0.0050	0.00093	12/02/11 09:00	12/05/11 14:21	VWC
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Environmental Resource Analysts, Inc.

2975 Brown Court

Auburn, AL 36830

December 29, 2011

Work Order: 1112032

Laboratory Report

Project Name Ashland 109725

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
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Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1112032-01						
Date/Time Collected		12/07/11 06:00						
Collected by		Client						
Date/Time Received		12/23/11 11:40						

Metals

Arsenic	mg/L	0.0060	EPA 200.8	0.0050	0.00093	12/27/11 11:59	12/28/11 21:04	VWC
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SOUTHERN ANALYTICAL LABORATORIES, INC.

5555 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
1555 Brown Court
Tuburn, AL 36830

March 5, 2012
Work Order: 1202195

Laboratory Report

Project Name		Ashland 111346							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By	
Sample Description		Effluent							
Matrix		Wastewater							
SAL Sample Number		1202195-01							
Date/Time Collected		02/01/12 06:00							
Collected by		Client							
Date/Time Received		02/28/12 12:00							
Metals									
Arsenic	mg/L	0.0093	EPA 200.8	0.0050	0.00093	02/29/12 09:13	03/01/12 15:53	VWC	



Environmental Resource Analysts, Inc.

April 3, 2012

Brown Court

Work Order: 1203405

Auburn, AL 36830

Laboratory Report

Project Name Ashland 112476

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1203405-01						
Date/Time Collected		03/07/12 06:00						
Collected by		Client						
Date/Time Received		03/30/12 12:15						

Metals

Arsenic	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	03/30/12 14:44	04/02/12 21:22	VWC
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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

May 7, 2012
Work Order: 1204596

Laboratory Report

Project Name		Ashland 113406						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent 113406						
Matrix		Wastewater						
SAL Sample Number		1204596-01						
Date/Time Collected		04/04/12 06:00						
Collected by		Client						
Date/Time Received		05/01/12 12:00						
Metals								
Arsenic	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	05/02/12 08:00	05/02/12 14:41	AWS

NORTHERN ANALYTICAL LABORATORIES, INC.

3875 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
3875 Brown Court
Auburn, AL 36830

June 8, 2012
Work Order: 1205907

Laboratory Report

Project Name		Ashland 114280							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By	
Sample Description		Effluent							
Matrix		Wastewater							
SAL Sample Number		1205907-01							
Date/Time Collected		05/02/12 14:20							
Collected by		Client							
Date/Time Received		06/01/12 12:25							
Metals									
Arsenic	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	06/06/12 12:01	06/07/12 16:59	VWC	

SOUTHERN ANALYTICAL LABORATORIES, INC.

100 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

July 6, 2012
Work Order: 1206962

Laboratory Report

Project Name Ashland 115420

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1206962-01						
Date/Time Collected		06/06/12 06:00						
Collected by		Client						
Date/Time Received		06/29/12 10:30						
Metals								
Arsenic	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	07/02/12 15:32	07/03/12 18:11	AWS

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

September 7, 2012
Work Order: 1209730

Laboratory Report

Project Name		Ashland 117257						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Sample Description		Effluent						
Matrix		Wastewater						
SAL Sample Number		1209730-01						
Date/Time Collected		08/01/12 06:00						
Collected by		Client						
Date/Time Received		08/28/12 12:20						
Metals								
Arsenic	mg/L	0.00093 U	EPA 200.8	0.0050	0.00093	08/30/12 12:43	08/31/12 18:16	AWS

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

October 15, 2012
Work Order: 1211346
Revised Report

Laboratory Report

Project Name **Ashland 118215**

Sample Description **Effluent 118215**
Matrix **Wastewater**
SAL Sample Number **1211346-01**
Date/Time Collected **09/05/12 06:00**
Collected by **Client**
Date/Time Received **09/27/12 12:30**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	mg/L	0.00093 u	EPA 200.8	0.0050	0.00093	10/04/12 16:36	10/09/12 20:42	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

October 18, 2012
Work Order: 1212035

Laboratory Report

Project Name	Ashland							
Sample Description	Effluent 119161							
Matrix	Wastewater							
SAL Sample Number	1212035-01							
Date/Time Collected	10/03/12 06:00							
Collected by	Client							
Date/Time Received	10/12/12 10:30							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	mg/L	0.00093 u	EPA 200.8	0.0050	0.00093	10/12/12 08:45	10/15/12 20:08	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

December 17, 2012
Work Order: 1214251

Laboratory Report

Project Name Ashland Effluent

Sample Description 121082
Matrix Wastewater
SAL Sample Number 1214251-01
Date/Time Collected 12/05/12 00:00
Collected by Client
Date/Time Received 12/12/12 12:25

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	12/12/12 11:09	12/13/12 16:49	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

January 24, 2013
Work Order: 1300739

Laboratory Report

Project Name Ashland Effluent

Sample Description 121992
Matrix Wastewater
SAL Sample Number 1300739-01
Date/Time Collected 01/02/13 06:00
Collected by Client
Date/Time Received 01/18/13 12:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	01/22/13 09:10	01/22/13 17:52	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

March 7, 2013
Work Order: 1301988

Laboratory Report

Project Name **Ashland**

Sample Description **123013**
Matrix **Wastewater**
SAL Sample Number **1301988-01**
Date/Time Collected **02/06/13 06:00**
Collected by **Client**
Date/Time Received **02/20/13 10:35**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	02/28/13 09:43	03/04/13 16:47	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

March 25, 2013
Work Order: 1302917

Laboratory Report

Project Name Ashland Water Works and Sewer Bo 03-0313

Sample Description 123801-02
Matrix Wastewater
SAL Sample Number 1302917-01
Date/Time Collected 03/06/13 06:00
Collected by Client
Date/Time Received 03/15/13 12:20

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	03/18/13 14:17	03/20/13 18:19	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

May 7, 2013
Work Order: 1304369

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo
Sample Description	124600-02
Matrix	Wastewater
SAL Sample Number	1304369-01
Date/Time Collected	04/03/13 06:00
Collected by	Client
Date/Time Received	04/24/13 10:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	05/03/13 12:30	05/06/13 16:05	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

May 28, 2013
Work Order: 1305283

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 125390-02
Matrix Wastewater
SAL Sample Number 1305283-01
Date/Time Collected 05/01/13 06:00
Collected by Client
Date/Time Received 05/20/13 10:50

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Metals

Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	05/22/13 12:06	05/24/13 14:56	1
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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

July 24, 2013
Work Order: 1306994

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 127253-02
Matrix Wastewater
SAL Sample Number 1306994-01
Date/Time Collected 07/03/13 06:00
Collected by Client
Date/Time Received 07/09/13 11:10

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Metals

Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	07/10/13 13:05	07/23/13 16:50	1
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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

August 29, 2013
Work Order: 1308629

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 128486-02
Matrix Wastewater
SAL Sample Number 1308629-01
Date/Time Collected 08/07/13 06:00
Collected by Client
Date/Time Received 08/20/13 12:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	08/20/13 10:05	08/28/13 14:53	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

September 24, 2013
Work Order: 1309705

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo							
Sample Description	129570-02							
Matrix	Wastewater							
SAL Sample Number	1309705-01							
Date/Time Collected	09/04/13 06:00							
Collected by	Client							
Date/Time Received	09/13/13 10:30							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	09/18/13 14:30	09/23/13 20:24	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

October 22, 2013
Work Order: 1311082

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 130841-02
Matrix Wastewater
SAL Sample Number 1311082-01
Date/Time Collected 10/09/13 06:00
Collected by Client
Date/Time Received 10/15/13 12:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	10/17/13 11:32	10/21/13 17:38	1

NERN ANALYTICAL LABORATORIES, INC.

NEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
In Court
Case No. 13-36830

November 25, 2013
Work Order: 1312549

Laboratory Report

Name Ashland Water Works & Sewer

Description 131734-02
Wastewater
Sample Number 1312549-01
Time Collected 11/06/13 06:00
Collected by Client
Date/Time Received 11/21/13 11:50

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	11/22/13 10:30	11/22/13 21:46	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

December 13, 2013
Work Order: 1313180

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo
Sample Description	132501-02
Matrix	Wastewater
SAL Sample Number	1313180-01
Date/Time Collected	12/04/13 06:00
Collected by	Client
Date/Time Received	12/10/13 12:50

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	12/12/13 10:12	12/12/13 21:59	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

January 30, 2014
Work Order: 1400946

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 133368-02
Matrix Wastewater
SAL Sample Number 1400946-01
Date/Time Collected 01/08/14 06:00
Collected by Client
Date/Time Received 01/24/14 11:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Client Provided Field Data

Metals

Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	01/25/14 10:00	01/28/14 17:23	1
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SOUTHERN ANALYTICAL LABORATORIES, INC.

10 BAYVIEW BOULEVARD, DODDSDALE, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

February 13, 2014
Work Order: 1401568

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 134116-02
Matrix Water
SAL Sample Number 1401568-01
Date/Time Collected 02/05/14 06:00
Collected by Client
Date/Time Received 02/11/14 10:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Client Provided Field Data

Metals

Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	02/12/14 09:00	02/12/14 18:31	1
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SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

April 4, 2014
Work Order: 1403085

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 134844-02
Matrix Wastewater
SAL Sample Number 1403085-01
Date/Time Collected 03/05/14 06:00
Collected by Client
Date/Time Received 03/25/14 12:15

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Client Provided Field Data

Metals

Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	04/01/14 14:37	04/03/14 17:49	1
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SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

May 2, 2014
Work Order: 1404137

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 135681-02
Matrix Wastewater
SAL Sample Number 1404137-01
Date/Time Collected 04/02/14 06:00
Collected by Client
Date/Time Received 04/22/14 10:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Client Provided Field Data

Metals

Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	04/29/14 11:00	05/01/14 14:11	1
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SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

May 15, 2014
Work Order: 1404822

Laboratory Report

Project Name Ashland water Works & Sewer

Sample Description 136629-02
Matrix Wastewater
SAL Sample Number 1404822-01
Date/Time Collected 05/07/14 06:00
Collected by Client
Date/Time Received 05/09/14 12:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Client Provided Field Data

Metals

Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	05/12/14 11:05	05/14/14 12:18	1
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SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

June 30, 2014
Work Order: 1406089

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 137394-02
Matrix Wastewater
SAL Sample Number 1406089-01
Date/Time Collected 06/04/14 06:00
Collected by Client
Date/Time Received 06/11/14 10:45

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	06/24/14 13:00	06/26/14 17:52	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

July 9, 2014
Work Order: 1406615

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo
Sample Description	137632-02
Matrix	Wastewater
SAL Sample Number	1406615-01
Date/Time Collected	06/13/14 06:00
Collected by	Client
Date/Time Received	06/26/14 11:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	07/03/14 10:15	07/07/14 16:01	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 FAX 813-855-2218



Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

July 30, 2014
Work Order: 1407480

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo
Sample Description	138209-02
Matrix	Wastewater
SAL Sample Number	1407480-01
Date/Time Collected	07/02/14 06:00
Collected by	Client
Date/Time Received	07/17/14 11:50

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	07/18/14 16:25	07/29/14 17:27	1



Environmental Resource Analysts, Inc.
 2975 Brown Court
 Auburn, AL 36830

August 29, 2014
 Work Order: 1409157

Laboratory Report

Project Name	Ashland Water Works & Sewer
Sample Description	139229-02
Matrix	Wastewater
SAL Sample Number	1409157-01
Date/Time Collected	08/06/14 07:10
Collected by	Client
Date/Time Received	08/25/14 12:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	08/26/14 16:05	08/28/14 14:23	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

September 24, 2014
Work Order: 1409838

Laboratory Report

Project Name	Ashland Water Works & Sewer
Sample Description	140136-02
Matrix	Wastewater
SAL Sample Number	1409838-01
Date/Time Collected	09/03/14 06:00
Collected by	Client
Date/Time Received	09/10/14 10:50

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	09/22/14 15:35	09/23/14 18:48	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

October 21, 2014
Work Order: 1410979

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo							
Sample Description	140989-02							
Matrix	Wastewater							
SAL Sample Number	1410979-01							
Date/Time Collected	10/01/14 06:00							
Collected by	Client							
Date/Time Received	10/09/14 11:15							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	10/13/14 09:38	10/17/14 17:33	1

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Environmental Resource Analysts, Inc.

2975 Brown Court
Auburn, AL 36830

November 17, 2014

Work Order: 1412149

Laboratory Report

Project Name	Ashland Water Works & Sewer							
Sample Description	142060-02							
Matrix	Wastewater							
SAL Sample Number	1412149-01							
Date/Time Collected	11/05/14 06:00							
Collected by	Client							
Date/Time Received	11/12/14 12:00							
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	11/13/14 09:37	11/14/14 19:19	1

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Environmental Resource Analysts, Inc.
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Auburn, AL 36830

December 17, 2014
Work Order: 1413013

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 142832-02
Matrix Wastewater
SAL Sample Number 1413013-01
Date/Time Collected 12/03/14 06:00
Collected by Client
Date/Time Received 12/10/14 12:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	12/15/14 10:44	12/16/14 12:59	1

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Environmental Resource Analysts, Inc.
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January 20, 2015
Work Order: 1500426

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 143767-02
Matrix Wastewater
SAL Sample Number 1500426-01
Date/Time Collected 01/07/15 06:00
Collected by Client
Date/Time Received 01/13/15 12:50

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	01/15/15 07:58	01/16/15 16:24	1

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Environmental Resource Analysts, Inc.
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Auburn, AL 36830

April 22, 2015
Work Order: 1503404

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo								
Sample Description	146116-02								
Matrix	Water								
SAL Sample Number	1503404-01								
Date/Time Collected	04/03/15 06:00								
Collected by	Client								
Date/Time Received	04/08/15 11:50								
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution	
Metals									
Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	04/10/15 10:04	04/21/15 14:27	1	

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Environmental Resource Analysts, Inc.

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Auburn, AL 36830

May 22, 2015

Work Order: 1504760

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 147032-02
Matrix Water
SAL Sample Number 1504760-01
Date/Time Collected 05/06/15 06:00
Collected by Client
Date/Time Received 05/13/15 11:40

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	05/15/15 08:29	05/21/15 17:46	1

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Environmental Resource Analysts, Inc.

2975 Brown Court

Auburn, AL 36830

June 30, 2015

Work Order: 1505840

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 147770-02
Matrix Water
SAL Sample Number 1505840-01
Date/Time Collected 06/03/15 06:00
Collected by Client
Date/Time Received 06/12/15 12:35

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	06/22/15 09:59	06/30/15 10:41	1

ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
P.O. Box 365
Ashland, AL 36251

Report No 03-0611

Date Received: 6/13/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
103693-02									
Ammonia	<0.100	mg N/L	N10	0.1	0.2	EPA 350.1	06/13/11 07:10	06/17/11 17:29	MGC
Arsenic	<24.5	ug/L		24.5	50	EPA 200.7	06/13/11 07:10	06/17/11 11:02	HW
CBOD	2.06	mg/L		2	2	SM 5210 B	06/13/11 07:10	06/14/11 15:40	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113B	06/13/11 07:10	06/17/11 09:33	HW
NO2-/NO3	32.9	mg/L		0.1	0.2	EPA 353.2	06/13/11 07:10	06/22/11 14:57	MGC
TSS	2.44	mg/L(Dry)		1	1	SM 2540D Mod.	06/13/11 07:10	06/16/11 09:10	CR

Report No 03-0611

Date Received: 6/13/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
103693-03									
E. Coli	9	cfu/100mL		9	9	SM 9222G	06/13/11 12:20	06/13/11 16:00	MC
subcontract	0.0023	µg/kg					06/13/11 12:20	06/22/11 09:00	SAL

Report No 03-0611

Date Received: 6/13/2011

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
103693-01									
CBOD	82.8	mg/L		2	2	SM 5210 B	06/13/11 07:05	06/14/11 15:40	BKS
TSS	215	mg/L(Dry)		1	1	SM 2540D Mod.	06/13/11 07:05	06/16/11 09:10	CR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0212

Date Received: 2/1/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
111396-02									
Ammonia	0.492	mg N/L		0.1	0.2	EPA 350.1	02/01/12 06:00	02/06/12 13:21	MGC
Arsenic	0.0093	mg/L		24.5	50	EPA 200.7	02/01/12 06:00	03/01/12 15:53	SAL
CBOD	4.02	mg/L		2	2	SM 5210 B	02/01/12 06:00	02/01/12 16:00	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113B	02/01/12 06:00	02/08/12 12:33	HW
NO2-/NO3	28.6	mg N/L		0.1	0.2	EPA 353.2	02/01/12 06:00	02/20/12 13:40	MGC
TKN	2.09	mg N/L		0.728	1.25	EPA 351.2	02/01/12 06:00	02/06/12 16:16	MGC
T-Phosphorous	4.79	mg P/L		0.26	0.5	EPA 365.4	02/01/12 06:00	02/06/12 16:16	MGC
TSS	21.3	mg/L(Dry)		1	1	SM 2540D Mod.	02/01/12 06:00	02/02/12 10:45	CR
111396-03									
E. Coli	<9	cfu/100mL		9	9	SM 9222G	02/01/12 10:30	02/01/12 14:40	BB

Report No 03-0212

Date Received: 2/1/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
111396-01									
CBOD	27.0	mg/L		2	2	SM 5210 B	02/01/12 06:00	02/01/12 16:00	BKS
TSS	40.0	mg/L(Dry)		1	1	SM 2540D Mod.	02/01/12 06:00	02/02/12 10:45	CR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1112

Date Received: 11/7/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
120251-02									
Ammonia	9.30	mg N/L		0.1	0.2	EPA 350.1(1993)	11/07/12 06:00	11/08/12 13:57	JAD
Arsenic	<28.7	ug/L		28.7	50	EPA 200.7	11/07/12 06:00	11/13/12 11:30	HW
CBOD	2.33	mg/L		2	2	SM 5210 B-2001	11/07/12 06:00	11/07/12 16:30	PW
Lead	<1.9	ug/L		1.9	5	SM 3113B	11/07/12 06:00	11/14/12 13:50	HW
NO2-/NO3	37.8	mg N/L		0.05	0.1	EPA 353.2(1993)	11/07/12 06:00	12/04/12 15:23	JAD
TKN	11.0	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	11/07/12 06:00	11/16/12 06:54	JAD
T-Phosphorous	6.64	mg P/L		0.26	0.5	EPA 365.4(1974)	11/07/12 06:00	11/16/12 06:54	JAD
TSS	10.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	11/07/12 06:00	11/09/12 13:00	WB
120251-03									
E. Coli	1	MPN	N10	1	1	SM 9223B-2004	11/07/12 10:00	11/07/12 16:40	BLS

Report No 03-1112

Date Received: 11/7/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
120251-01									
CBOD	20.7	mg/L		2	2	SM 5210 B-2001	11/07/12 06:00	11/07/12 16:30	PW
TSS	27.4	mg/L(Dry)		1	1	SM 2540D Mod-1997	11/07/12 06:00	11/09/12 13:00	WB

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

July 9, 2013
Work Order: 1306437

Laboratory Report

Project Name	Ashland Water Works & Sewer Bo
Sample Description	126384-02
Matrix	Wastewater
SAL Sample Number	1306437-01
Date/Time Collected	06/05/13 06:00
Collected by	Client
Date/Time Received	06/21/13 10:40

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	1.2 l	EPA 200.8	5.0	0.93	06/27/13 09:10	07/02/13 21:19	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	06/27/13 09:10	07/02/13 21:19	1

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Environmental Resource Analysts, Inc.

2975 Brown Court

Auburn, AL 36830

March 13, 2015

Work Order: 1502062

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 144584-02
Matrix Wastewater
SAL Sample Number 1502062-01
Date/Time Collected 02/04/15 06:00
Collected by Client
Date/Time Received 02/27/15 12:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
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Metals

Arsenic	ug/L	0.93 U	EPA 200.8	5.0	0.93	03/12/15 08:24	03/12/15 13:46	1
Lead	ug/L	0.25 U	EPA 200.8	0.50	0.25	03/12/15 08:24	03/12/15 13:46	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

April 7, 2015
Work Order: 1502377
Revised Report

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 145273-02
Matrix Wastewater
SAL Sample Number 1502377-01
Date/Time Collected 03/04/15 06:00
Collected by Client
Date/Time Received 03/10/15 13:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
<u>Metals</u>								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	03/18/15 15:19	03/23/15 15:49	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	03/18/15 15:19	03/23/15 15:49	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

July 30, 2015
Work Order: 1506879
Revised Report

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 148551-02
Matrix Water
SAL Sample Number 1506879-01
Date/Time Collected 07/01/15 06:00
Collected by Client
Date/Time Received 07/14/15 12:15

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	07/18/15 10:20	07/22/15 12:50	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	07/24/15 10:00	07/28/15 16:18	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

September 1, 2015
Work Order: 1508313

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 149538-02
Matrix Water
SAL Sample Number 1508313-01
Date/Time Collected 08/05/15 06:00
Collected by Client
Date/Time Received 08/14/15 11:30

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	08/27/15 08:14	08/31/15 12:47	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	08/27/15 08:14	08/31/15 12:47	1

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

September 28, 2015
Work Order: 1509502
Revised Report

Laboratory Report

Project Name Ashland Water Works & Sewer

Sample Description 150412-02
Matrix Water
SAL Sample Number 1509502-01
Date/Time Collected 09/02/15 06:00
Collected by Client
Date/Time Received 09/11/15 11:15

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	09/22/15 09:43	09/24/15 15:46	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	09/22/15 09:43	09/24/15 15:46	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

October 23, 2015
Work Order: 1510928

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 151364-02
Matrix Water
SAL Sample Number 1510928-01
Date/Time Collected 10/07/15 06:00
Collected by Client
Date/Time Received 10/16/15 12:50

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	10/20/15 09:25	10/20/15 15:47	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	10/20/15 09:25	10/20/15 15:47	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

November 27, 2015
Work Order: 1512005

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 152204-02
Matrix Water
SAL Sample Number 1512005-01
Date/Time Collected 11/04/15 06:00
Collected by Client
Date/Time Received 11/12/15 11:45

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	11/17/15 10:44	11/19/15 18:47	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	11/17/15 10:44	11/19/15 18:47	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

January 13, 2016
Work Order: 1513887
Revised Report

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 152973-02
Matrix Water
SAL Sample Number 1513887-01
Date/Time Collected 12/02/15 06:00
Collected by Client
Date/Time Received 12/30/15 11:12

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	01/07/16 09:33	01/07/16 16:41	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	01/07/16 09:33	01/07/16 16:41	1

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Environmental Resource Analysts, Inc.
2975 Brown Court
Auburn, AL 36830

January 29, 2016
Work Order: 1601185

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 153840-02
Matrix Water
SAL Sample Number 1601185-01
Date/Time Collected 01/05/16 07:00-01/06/16 06:00
Collected by Client
Date/Time Received 01/26/16 12:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	01/27/16 08:47	01/28/16 16:58	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	01/27/16 08:47	01/28/16 16:58	1



Environmental Resource Analysts, Inc.
 975 Brown Court
 Auburn, AL 36830

February 26, 2016
 Work Order: 1602311

Laboratory Report

Project Name Ashland Water Works & Sewer Bo

Sample Description 154676-02
 Matrix Water
 SAL Sample Number 1602311-01
 Date/Time Collected 02/03/16 06:00
 Collected by Client
 Date/Time Received 02/16/16 11:50

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Dilution
Metals								
Arsenic	ug/L	0.93 u	EPA 200.8	5.0	0.93	02/24/16 11:57	02/25/16 16:45	1
Lead	ug/L	0.25 u	EPA 200.8	0.50	0.25	02/24/16 11:57	02/25/16 16:45	1



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park, 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0316

Date Received: 3/2/2016

Location Effluent 1st week

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
155442-02									
Ammonia	<0.100	mg N/L		0.1	0.2	EPA 350.1(1993)	03/02/16 06:00	03/07/16 14:05	CR
Arsenic	<0.31	ug/L	N8	0.31	1	EPA 200.8 (1994)	03/02/16 06:00	03/09/16 12:40	HW
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	03/02/16 06:00	03/02/16 16:40	YA
Lead	<0.22	ug/L	N8	0.22	1	EPA 200.8 (1994)	03/02/16 06:00	03/09/16 12:40	HW
NO2-/NO3	5.15	mg N/L		0.04	0.1	EPA 353.2(1993)	03/02/16 06:00	03/04/16 09:22	CR
TKN	0.332	mg N/L	N10	0.25	1.25	EPA 351.2(1993)	03/02/16 06:00	03/11/16 09:19	CR
T-Phosphorous	2.13	mg P/L		0.05	0.5	EPA 365.4(1974)	03/02/16 06:00	03/11/16 09:19	CR
TSS	3.20	mg/L(Dry)		1	1	SM 2540D Mod-1997	03/02/16 06:00	03/03/16 11:00	CDR
155442-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	03/02/16 08:15	03/02/16 13:50	HW

Report No 03-0316

Date Received: 3/2/2016

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
155442-01									
CBOD	66.9	mg/L		2	2	SM 5210 B-2001	03/02/16 06:00	03/02/16 16:40	YA
TSS	96.7	mg/L(Dry)		1	1	SM 2540D Mod-1997	03/02/16 06:00	03/03/16 11:00	CDR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0416

Date Received: 4/6/2016

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
156384-02									
Ammonia	5.25	mg N/L		0.1	0.2	EPA 350.1(1993)	04/06/16 06:00	04/11/16 13:36	CR
Arsenic	<0.24	ug/L	N8,N6	0.24	1	EPA 200.8 (1994)	04/06/16 06:00	04/13/16 11:23	HW
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	04/06/16 06:00	04/06/16 16:45	YA
Lead	<0.18	ug/L	N8,N6	0.18	1	EPA 200.8 (1994)	04/06/16 06:00	04/13/16 11:23	HW
NO2-/NO3	2.04	mg N/L		0.04	0.1	EPA 353.2(1993)	04/06/16 06:00	04/08/16 09:12	CR
TKN	23.3	mg N/L		0.25	1.25	EPA 351.2(1993)	04/06/16 06:00	04/15/16 09:26	CR
T-Phosphorous	6.75	mg P/L		0.05	0.5	EPA 365.4(1974)	04/06/16 06:00	04/15/16 09:26	CR
TSS	2.40	mg/L(Dry)		1	1	SM 2540D Mod-1997	04/06/16 06:00	04/07/16 16:45	CDR

Report No 03-0416

Date Received: 4/6/2016

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
156384-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	04/06/16 08:30	04/06/16 15:05	KH

Report No 03-0416

Date Received: 4/6/2016

Location influent artly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
156384-01									
CBOD	<24.0	mg/L		2	2	SM 5210 B-2001	04/06/16 06:00	04/06/16 16:45	YA
CBOD Retest	8.59	mg/L		2	2	SM 5210B-2001	04/06/16 06:00	04/12/16 15:45	ED
TSS	24.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	04/06/16 06:00	04/07/16 16:45	CDR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
P.O. Box 365
Ashland, AL 36251

Report No 03-0711

Date Received: 7/6/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
104432-02									
Ammonia	<0.100	mg N/L	N10	0.1	0.2	EPA 350.1	07/06/11 05:50	07/15/11 12:28	MGC
CBOD	<2.00	mg/L		2	2	SM 5210 B	07/06/11 05:50	07/06/11 16:50	LCF
Lead	<1.2	ug/L		1.2	5	SM 3113B	07/06/11 05:50	07/19/11 10:10	HW
NO2-/NO3	37.0	mg N/L		0.25	0.5	EPA 353.2	07/06/11 05:50	07/07/11 15:57	MGC
TKN	1.10	mg N/L	N10, N12	0.55	1.25	EPA 351.2	07/06/11 05:50	07/11/11 11:31	MGC
T-Phosphorous	6.08	mg P/L	Z	0.2	0.25	EPA 365.4	07/06/11 05:50	07/12/11 14:12	MGC
TSS	3.78	mg/L(Dry)		1	1	SM 2540D Mod.	07/06/11 05:50	07/11/11 10:30	CR

Report No 03-0711

Date Received: 7/6/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
104432-03									
E. Coli	<9	cfu/100mL		1	1	SM 9222G	07/06/11 11:13	07/06/11 15:30	MC

Report No 03-0711

Date Received: 7/6/2011

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
104432-01									
CBOD	27.8	mg/L		2	2	SM 5210 B	07/06/11 05:50	07/06/11 16:50	LCF
TSS	42.5	mg/L(Dry)		1	1	SM 2540D Mod.	07/06/11 05:50	07/11/11 10:30	CR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

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Results of Analysis For: Ashland Water Works & Sewer Board
P.O. Box 365
Ashland, AL 36251

Report No 03-0811

Date Received: 8/3/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
105449-02									
Ammonia	0.102	mg N/L	N10	0.1	0.2	EPA 350.1	08/03/11 05:55	08/05/11 14:43	MGC
CBOD	<2.00	mg/L	K6	2	2	SM 5210 B	08/03/11 05:55	08/03/11 16:50	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113 B	08/03/11 05:55	08/11/11 08:49	HW
NO2-/NO3	33.4	mg N/L		0.25	0.5	EPA 353.2	08/03/11 05:55	08/05/11 17:30	MGC
TKN	2.21	mg N/L		0.55	1.25	EPA 351.2	08/03/11 05:55	08/09/11 14:17	MGC
T-Phosphorous	7.49	mg P/L	Z1	0.2	0.25	EPA 365.4	08/03/11 05:55	08/10/11 15:39	MGC
TSS	3.33	mg/L(Dry)		1	1	SM 2540D Mod.	08/03/11 05:55	08/04/11 11:11	CR
105449-03									
E. Coli	<9	cfu/100mL		1	1	SM 9222G	08/03/11 11:08	08/03/11 16:00	MC

Report No 03-0811

Date Received: 8/3/2011

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
105449-01									
CBOD	40.9	mg/L	K6	2	2	SM 5210 B	08/03/11 05:55	08/03/11 16:50	BKS
TSS	100	mg/L(Dry)		1	1	SM 2540D Mod.	08/03/11 05:55	08/04/11 11:11	CR



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Results of Analysis For: Ashland Water Works & Sewer Board
P.O. Box 365
Ashland, AL 36251

Report No 03-0911

Date Received: 9/7/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
106549-02									
Ammonia	<0.100	mg N/L		0.1	0.2	EPA 350.1	09/07/11 07:10	09/12/11 15:40	MGC
CBOD	<2.00	mg/L	T	2	2	SM 5210 B	09/07/11 07:10	09/07/11 15:30	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113-B	09/07/11 07:10	09/14/11 09:09	HW
NO2-/NO3	41.9	mg N/L		0.1	0.2	EPA 353.2	09/07/11 07:10	09/08/11 18:17	MGC
TKN	<0.550	mg N/L		0.55	1.25	EPA 351.2	09/07/11 07:10	09/15/11 09:36	MGC
T-Phosphorous	7.16	mg P/L	Z1	0.2	0.25	EPA 365.4	09/07/11 07:10	09/13/11 16:39	MGC
TSS	2.44	mg/L(Dry)		1	1	SM 2540D Mod.	09/07/11 07:10	09/08/11 08:55	CR
106549-03									
E. Coli	18	cfu/100mL		1	1	SM 9222G	09/07/11 11:10	09/07/11 15:37	BB

Report No 03-0911

Date Received: 9/7/2011

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
106549-01									
CBOD	29.2	mg/L	T	2	2	SM 5210 B	09/07/11 07:00	09/07/11 15:30	BKS
TSS	70.0	mg/L(Dry)		1	1	SM 2540D Mod.	09/07/11 07:00	09/08/11 08:55	CR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

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Results of Analysis For: Ashland Water Works & Sewer Board
P.O. Box 365
Ashland, AL 36251

Report No 03-1011

Date Received: 10/5/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
107559-02									
Ammonia	<0.100	mg N/L		0.1	0.2	EPA 350.1	10/05/11 07:15	10/06/11 13:34	MGC
CBOD	<2.00	mg/L		2	2	SM 5210 B	10/05/11 07:15	10/05/11 16:30	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113B	10/05/11 07:15	10/14/11 09:01	HW
NO2-/NO3	38.6	mg N/L		0.25	0.5	EPA 353.2	10/05/11 07:15	10/07/11 14:14	MGC
TKN	1.66	mg N/L		0.55	1.25	EPA 351.2	10/05/11 07:15	10/10/11 10:35	MGC
T-Phosphorous	7.25	mg P/L		0.2	0.25	EPA 365.4	10/05/11 07:15	10/07/11 08:42	MGC
TSS	13.7	mg/L(Dry)		1	1	SM 2540D Mod.	10/05/11 07:15	10/07/11 11:24	BB

Report No 03-1011

Date Received: 10/5/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
107559-03									
E. Coli	54	cfu/100mL		1	1	SM 9222G	10/05/11 11:30	10/05/11 17:00	BB

Report No 03-1011

Date Received: 10/5/2011

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
107559-01									
CBOD	57.8	mg/L		2	2	SM 5210 B	10/05/11 07:08	10/05/11 16:30	BKS
TSS	60.0	mg/L(Dry)		1	1	SM 2540D Mod.	10/05/11 07:08	10/07/11 11:24	BB



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

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Results of Analysis For: Ashland Water Works & Sewer Board
P.O. Box 365
Ashland, AL 36251

Report No 03-1111

Date Received: 11/2/2011

Location Effluent

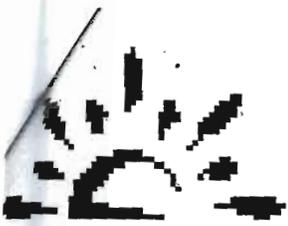
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
108713-02									
Ammonia	<0.100	mg N/L		0.1	0.2	EPA 350.1	11/02/11 07:10	11/04/11 11:40	MGC
CBOD	3.64	mg/L		2	2	SM 5210 B	11/02/11 07:10	11/02/11 16:30	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113B	11/02/11 07:10	11/11/11 08:56	HW
NO2-/NO3	41.4	mg N/L		0.1	0.2	EPA 353.2	11/02/11 07:10	11/22/11 09:10	MGC
TKN	2.22	mg N/L	Z1	0.55	1.25	EPA 351.2	11/02/11 07:10	11/10/11 10:57	MGC
T-Phosphorous	6.74	mg P/L		0.2	0.25	EPA 365.4	11/02/11 07:10	11/09/11 12:03	MGC
TSS	10.0	mg/L(Dry)		1	1	SM 2540D Mod.	11/02/11 07:10	11/04/11 09:05	CR
108713-03									
E. Coli	45	cfu/100mL		9	9	SM 9222G	11/02/11 11:10	11/02/11 15:00	BB

Report No 03-1111

Date Received: 11/2/2011

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
108713-01									
CBOD	46.0	mg/L		2	2	SM 5210 B	11/02/11 07:05	11/02/11 16:30	BKS
TSS	70.0	mg/L(Dry)		1	1	SM 2540D Mod.	11/02/11 07:05	11/04/11 09:05	CR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
P.O. Box 365
Ashland, AL 36251

Report No 03-1111

Date Received: 11/9/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
108903-02									
Ammonia	<0.100	mg N/L		0.1	0.2	EPA 350.1	11/09/11 07:15	11/14/11 14:03	MGC
CBOD	2.68	mg/L	F	2	2	SM 5210 B	11/09/11 07:15	11/09/11 15:30	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113B	11/09/11 07:15	11/11/11 08:56	HW
NO2-/NO3	40.2	mg N/L		0.25	0.5	EPA 353.2	11/09/11 07:15	11/22/11 09:10	MGC
TKN	2.15	mg N/L		0.55	1.25	EPA 351.2	11/09/11 07:15	11/17/11 18:15	MGC
T-Phosphorous	5.81	mg P/L		0.2	0.25	EPA 365.4	11/09/11 07:15	11/10/11 16:59	MGC
TSS	7.20	mg/L(Dry)		1	1	SM 2540D Mod.	11/09/11 07:15	11/14/11 10:00	CR
108903-03									
E. Coli	<9	cfu/100mL		9	9	SM 9222G	11/09/11 11:00	11/09/11 14:30	BB

Report No 03-1111

Date Received: 11/9/2011

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
108903-01									
CBOD	96.4	mg/L	F	2	2	SM 5210 B	11/09/11 07:05	11/09/11 15:30	BKS
TSS	400	mg/L(Dry)		1	1	SM 2540D Mod.	11/09/11 07:05	11/14/11 10:00	CR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
P.O. Box 365
Ashland, AL 36251

Report No 03-1211

Date Received: 12/7/2011

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
109725-02									
Ammonia	0.229	mg N/L		0.1	0.2	EPA 350.1	12/07/11 06:00	12/08/11 14:30	MGC
CBOD	3.42	mg/L		2	2	SM 5210 B	12/07/11 06:00	12/07/11 16:20	MMH
Lead	<1.2	ug/L		1.2	5	SM 3113B	12/07/11 06:00	12/15/11 08:53	HW
NO2-/NO3	41.0	mg N/L		0.25	0.5	EPA 353.2	12/07/11 06:00	12/19/11 12:49	MGC
TKN	1.97	mg N/L		0.55	1.25	EPA 351.2	12/07/11 06:00	12/12/11 20:02	MGC
T-Phosphorous	5.42	mg P/L		0.2	0.25	EPA 365.4	12/07/11 06:00	12/13/11 12:19	MGC
TSS	12.0	mg/L(Dry)		1	1	SM 2540D Mod.	12/07/11 06:00	12/12/11 09:35	BB
109725-03									
E. Coli	<9	cfu/100mL		9	9	SM 9222G	12/07/11 10:50	12/07/11 14:05	BB

Report No 03-1211

Date Received: 12/7/2011

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
109725-01									
CBOD	27.5	mg/L		2	2	SM 5210 B	12/07/11 06:00	12/07/11 16:20	MMH
TSS	225	mg/L(Dry)		1	1	SM 2540D Mod.	12/07/11 06:00	12/12/11 09:35	BB

ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0112

Date Received: 1/4/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
110553-02									
Ammonia	0.758	mg N/L		0.1	0.2	EPA 350.1	01/04/12 06:00	01/06/12 11:27	MGC
CBOD	3.43	mg/L		2	2	SM 5210 B	01/04/12 06:00	01/04/12 16:00	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113B	01/04/12 06:00	01/31/12 10:21	HW
NO2-/NO3	41.4	mg N/L		0.25	0.5	EPA 353.2	01/04/12 06:00	01/31/12 07:27	MGC
TKN	2.11	mg N/L	Q1	0.55	1.25	EPA 351.2	01/04/12 06:00	01/11/12 09:53	MGC
T-Phosphorous	7.71	mg P/L		0.2	0.25	EPA 365.4	01/04/12 06:00	01/09/12 16:37	MGC
TSS	21.8	mg/L(Dry)		1	1	SM 2540D Mod.	01/04/12 06:00	01/05/12 13:30	CR

Report No 03-0112

Date Received: 1/4/2012

Location Effluent

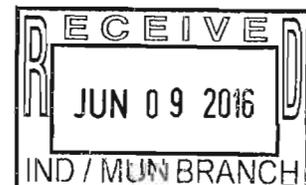
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
110553-03									
E. Coli	<9	cfu/100mL		9	9	SM 9222G	01/04/12 10:50	01/04/12 14:20	BB

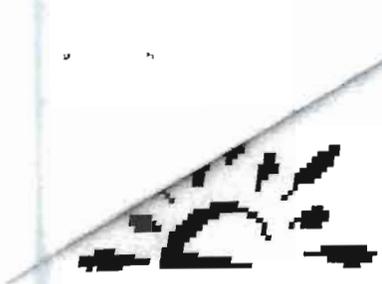
Report No 03-0112

Date Received: 1/4/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
110553-01									
CBOD	53.6	mg/L		2	2	SM 5210 B	01/04/12 06:00	01/04/12 16:00	BKS
TSS	23.6	mg/L(Dry)		1	1	SM 2540D Mod.	01/04/12 06:00	01/05/12 13:30	CR





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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0312

Date Received: 3/7/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
112476-02									
Ammonia	<0.100	mg N/L		0.1	0.2	EPA 350.1	03/07/12 06:00	03/08/12 16:44	MGC
CBOD	4.45	mg/L		2	2	SM 5210 B	03/07/12 06:00	03/07/12 16:30	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113B	03/07/12 06:00	03/15/12 07:44	HW
NO2-/NO3	31.8	mg N/L		0.1	0.2	EPA 353.2	03/07/12 06:00	03/21/12 17:23	MGC
TKN	3.66	mg N/L		0.728	1.25	EPA 351.2	03/07/12 06:00	03/12/12 15:09	MGC
T-Phosphorous	5.24	mg P/L		0.26	0.5	EPA 365.4	03/07/12 06:00	03/12/12 15:09	MGC
TSS	20.0	mg/L(Dry)		1	1	SM 2540D Mod.	03/07/12 06:00	03/08/12 10:00	CR
112476-03									
E. Coli	200	cfu/100mL		9	9	SM 9222G	03/07/12 10:30	03/07/12 14:30	EC

Report No 03-0312

Date Received: 3/7/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
112476-01									
CBOD	79.8	mg/L		2	2	SM 5210 B	03/07/12 06:00	03/07/12 16:30	BKS
TSS	183	mg/L(Dry)		1	1	SM 2540D Mod.	03/07/12 06:00	03/08/12 10:00	CR



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0412

Date Received: 4/4/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
113406-02									
Ammonia	<0.100	mg N/L	N10	0.1	0.2	EPA 350.1	04/04/12 06:00	04/06/12 18:07	MGC
CBOD	<2.00	mg/L		2	2	SM 5210 B	04/04/12 06:00	04/04/12 16:30	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113 B	04/04/12 06:00	04/13/12 11:03	HW
NO2-/NO3	40.4	mg N/L		0.1	0.2	EPA 353.2	04/04/12 06:00	04/24/12 10:07	MGC
TKN	1.79	mg N/L	M2	0.728	1.25	EPA 351.2	04/04/12 06:00	04/06/12 13:08	MGC
T-Phosphorous	6.58	mg P/L	Z1	0.26	0.5	EPA 365.4	04/04/12 06:00	04/06/12 11:01	MGC
TSS	3.56	mg/L(Dry)		1	1	SM 2540D Mod.	04/04/12 06:00	04/06/12 09:45	CR

Report No 03-0412

Date Received: 4/4/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
113406-03									
E. Coli	<9	cfu/100mL		9	9	SM 9222G	04/04/12 10:30	04/04/12 13:45	MGC

Report No 03-0412

Date Received: 4/4/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
113406-01									
CBOD	70.9	mg/L		2	2	SM 5210 B	04/04/12 06:00	04/04/12 16:30	BKS
Oil & Grease	2.39	mg/L	N10	1	5	EPA 1664A	04/04/12 06:00	04/12/12 12:30	HK
TKN	38.4	mg N/L	M2	1.456	2.5	EPA 351.2	04/04/12 06:00	04/06/12 11:01	MGC
T-Phosphorous	7.92	mg P/L	Z1	0.26	0.5	EPA 365.4	04/04/12 06:00	04/06/12 11:01	MGC
TSS	111	mg/L(Dry)		1	1	SM 2540D Mod.	04/04/12 06:00	04/06/12 09:45	CR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0512

Date Received: 5/2/2012

Location Effluent

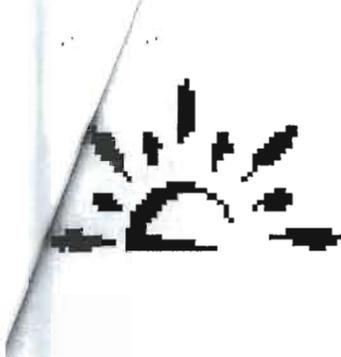
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
114280-02									
Ammonia	7.75	mg N/L		0.1	0.2	EPA 350.1	05/02/12 06:00	05/03/12 10:44	MGC
CBOD	2.19	mg/L		2	2	SM 5210 B	05/02/12 06:00	05/02/12 16:30	JD
Lead	<1.2	ug/L	N14	1.2	5	SM 3113B	05/02/12 06:00	05/29/12 10:40	HW
NO2-/NO3	37.3	mg N/L		0.1	0.2	EPA 353.2	05/02/12 06:00	05/22/12 13:07	MGC
TKN	10.1	mg N/L		0.728	1.25	EPA 351.2	05/02/12 06:00	05/09/12 09:17	MGC
T-Phosphorous	9.17	mg P/L	Z1	0.26	0.5	EPA 365.4	05/02/12 06:00	05/09/12 09:17	MGC
TSS	8.00	mg/L(Dry)		1	1	SM 2540D Mod.	05/02/12 06:00	05/03/12 11:00	CR
114280-03									
E. Coli	6	MPN	G	1	1	SM 9223B	05/02/12 06:55	05/02/12 14:20	CR

Report No 03-0512

Date Received: 5/2/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
114280-01									
CBOD	38.9	mg/L		2	2	SM 5210 B	05/02/12 06:00	05/02/12 16:30	JD
Oil & Grease	1.59	mg/L	Y,N10	1	5	EPA 1664A	05/02/12 06:00	05/21/12 08:30	HK
TKN	45.3	mg N/L		1.456	2.5	EPA 351.2	05/02/12 06:00	05/09/12 09:17	MGC
T-Phosphorous	9.09	mg P/L	Z1	0.26	0.5	EPA 365.4	05/02/12 06:00	05/09/12 09:17	MGC
TSS	135	mg/L(Dry)		1	1	SM 2540D Mod.	05/02/12 06:00	05/03/12 11:00	CR
114280-04									
Oil & Grease	2.11	mg/L	N10	1	5	EPA 1664A	05/02/12 06:40	05/24/12 09:00	HK



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0612

Date Received: 6/6/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
115420-02									
Ammonia	0.102	mg N/L	N10	0.1	0.2	EPA 350.1	06/06/12 06:00	06/07/12 15:58	MGC
CBOD	<2.00	mg/L		2	2	SM 5210 B	06/06/12 06:00	06/06/12 16:45	BKS
Lead	5.81	ug/L	N9	1.2	5	SM 3113B	06/06/12 06:00	06/18/12 11:30	HW
NO2-/NO3	33.6	mg N/L		0.1	0.2	EPA 353.2	06/06/12 06:00	06/26/12 13:49	JAD
TKN	<0.728	mg N/L		0.728	1.25	EPA 351.2	06/06/12 06:00	06/08/12 13:05	JAD
T-Phosphorous	5.11	mg P/L		0.26	0.5	EPA 365.4	06/06/12 06:00	06/08/12 13:05	JAD
TSS	3.33	mg/L(Dry)		1	1	SM 2540D Mod.	06/06/12 06:00	06/08/12 09:50	CR
115420-03									
E. Coli	5	MPN		1	1	SM 9223B	06/06/12 10:30	06/06/12 14:58	BLS

Report No 03-0612

Date Received: 6/6/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
115420-01									
CBOD	18.4	mg/L		2	2	SM 5210 B	06/06/12 06:00	06/06/12 16:45	BKS
TSS	36.0	mg/L(Dry)		1	1	SM 2540D Mod.	06/06/12 06:00	06/08/12 09:50	CR



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0712

Date Received: 7/4/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
116385-02									
Ammonia	0.104	mg N/L	N10	0.1	0.2	EPA 350.1	07/04/12 06:00	07/09/12 13:34	MGC
CBOD	<2.00	mg/L		2	2	SM 5210 B	07/04/12 06:00	07/04/12 14:45	BKS
Lead	<1.2	ug/L		1.2	5	SM3113B	07/04/12 06:00	07/16/12 12:09	HW
NO2-/NO3	23.4	mg N/L		0.1	0.2	EPA 353.2	07/04/12 06:00	07/17/12 15:10	JAD
TKN	0.949	mg N/L	N10	0.728	1.25	EPA 351.2	07/04/12 06:00	07/13/12 13:17	JAD
T-Phosphorous	6.83	mg P/L		0.26	0.5	EPA 365.4	07/04/12 06:00	07/13/12 13:17	JAD
TSS	4.00	mg/L(Dry)		1	1	SM 2540D Mod.	07/04/12 06:00	07/06/12 10:00	CR

Report No 03-0712

Date Received: 7/4/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
116385-03									
E. Coli	7	MPN		1	1	SM 9223B	07/04/12 10:00	07/04/12 12:12	BLS

Report No 03-0712

Date Received: 7/4/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
116385-01									
CBOD	18.6	mg/L		2	2	SM 5210 B	07/04/12 06:00	07/04/12 14:45	BKS
TKN	30.7	mg N/L		1.456	2.5	EPA 351.2	07/04/12 06:00	07/13/12 13:17	JAD
T-Phosphorous	7.60	mg P/L		0.26	0.5	EPA 365.4	07/04/12 06:00	07/13/12 13:17	JAD
TSS	70.0	mg/L(Dry)		1	1	SM 2540D Mod.	07/04/12 06:00	07/06/12 10:00	CR
116385-04									
Oil & Grease	<1.00	mg/L		1	5	EPA 1664A	07/04/12 06:40	07/11/12 11:30	MGC



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0812

Date Received: 8/1/2012

Location Effluent

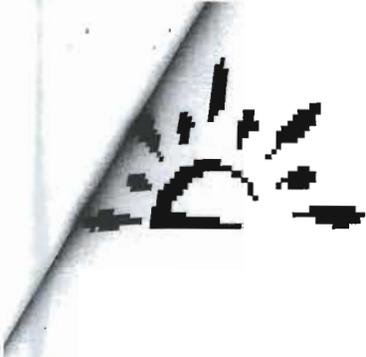
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
117257-02									
Ammonia	<0.100	mg N/L		0.1	0.2	EPA 350.1	08/01/12 06:00	08/02/12 11:56	JAD
CBOD	<2.00	mg/L		2	2	SM 5210 B	08/01/12 06:00	08/01/12 17:00	BKS
Lead	<1.2	ug/L		1.2	5	SM 3113B	08/01/12 06:00	08/08/12 09:27	HW
NO2-/NO3	30.5	mg N/L		0.1	0.2	EPA 353.2	08/01/12 06:00	08/07/12 11:08	JAD
TKN	1.52	mg N/L		0.728	1.25	EPA 351.2	08/01/12 06:00	08/13/12 11:10	JAD
T-Phosphorous	7.13	mg P/L		0.26	0.5	EPA 365.4	08/01/12 06:00	08/13/12 11:10	JAD
TSS	10.8	mg/L(Dry)		1	1	SM 2540D Mod.	08/01/12 06:00	08/02/12 09:45	CR
117257-03									
E. Coli	>2420	MPN		1	1	SM 9223B	08/01/12 10:30	08/01/12 14:37	BLS

Report No 03-0812

Date Received: 8/1/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
117257-01									
CBOD	<15.0	mg/L		2	2	SM 5210 B	08/01/12 06:00	08/01/12 17:00	BKS
TSS	17.3	mg/L(Dry)		1	1	SM 2540D Mod.	08/01/12 06:00	08/02/12 09:45	CR



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0812

Date Received: 8/8/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
117481-02									
Ammonia	<0.100	mg N/L		0.1	0.2	EPA 350.1	08/08/12 06:00	08/09/12 14:16	JAD
CBOD	2.04	mg/L		2	2	SM 5210 B	08/08/12 06:00	08/08/12 15:45	PW
Lead	<1.2	ug/L		1.2	5	SM 3113B	08/08/12 06:00	08/16/12 12:12	HW
NO2-/NO3	38.9	mg N/L		0.01	0.2	EPA 353.2	08/08/12 06:00	08/17/12 13:54	JAD
TKN	1.70	mg N/L	Z1	0.728	1.25	EPA 351.2	08/08/12 06:00	08/15/12 10:49	JAD
T-Phosphorous	6.62	mg P/L		0.26	0.5	EPA 365.4	08/08/12 06:00	08/15/12 10:49	JAD
TSS	5.00	mg/L(Dry)		1	1	SM 2540D Mod.	08/08/12 06:00	08/09/12 11:00	CR
117481-03									
E. Coli	56	MPN		1	1	SM 9223B	08/08/12 10:30	08/08/12 16:05	BLS

Report No 03-0812

Date Received: 8/8/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
117481-01									
CBOD	24.9	mg/L		2	2	SM 5210 B	08/08/12 06:00	08/08/12 15:45	PW
TSS	63.3	mg/L(Dry)		1	1	SM 2540D Mod.	08/08/12 06:00	08/09/12 11:00	CR



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0912

Date Received: 9/5/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
118215-02									
Ammonia	2.10	mg N/L		0.1	0.2	EPA 350.1	09/05/12 06:00	09/06/12 12:17	JAD
CBOD	2.64	mg/L		2	2	SM 5210 B	09/05/12 06:00	09/05/12 17:30	BLS
Lead	2.0	ug/L	N10	1.2	5	SM 3113B	09/05/12 06:00	09/12/12 08:51	HW
NO2-/NO3	52.2	mg N/L		0.2	0.4	EPA 353.2	09/05/12 06:00	09/07/12 08:27	JAD
TKN	6.09	mg N/L		0.728	1.25	EPA 351.2	09/05/12 06:00	09/10/12 09:40	JAD
T-Phosphorous	9.46	mg P/L		0.26	0.5	EPA 365.4	09/05/12 06:00	09/10/12 09:40	JAD
TSS	9.67	mg/L(Dry)		1	1	SM 2540D Mod.	09/05/12 06:00	09/06/12 12:30	CR
118215-03									
E. Coli	3	MPN		1	1	SM 9223B	09/05/12 10:30	09/05/12 14:49	BLS

Report No 03-0912

Date Received: 9/5/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
118215-01									
CBOD	13.2	mg/L		2	2	SM 5210 B	09/05/12 06:00	09/05/12 17:30	BLS
TSS	27.5	mg/L(Dry)		1	1	SM 2540D Mod.	09/05/12 06:00	09/06/12 12:30	CR



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1012

Date Received: 10/3/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
119161-02									
Ammonia	<0.100	mg N/L		0.1	0.2	EPA 350.1	10/03/12 06:00	10/04/12 09:52	JAD
CBOD	3.17	mg/L	H2	2	2	SM 5210 B	10/03/12 06:00	10/10/12 14:00	PW
Lead	<1.9	ug/L		1.9	5	SM 3113B	10/03/12 06:00	10/09/12 08:28	HW
NO2-/NO3	27.1	mg N/L		0.1	0.2	EPA 353.2	10/03/12 06:00	10/05/12 10:47	JAD
TKN	<0.728	mg N/L		0.728	1.25	EPA 351.2	10/03/12 06:00	10/05/12 06:31	JAD
T-Phosphorous	5.45	mg P/L		0.26	0.5	EPA 365.4	10/03/12 06:00	10/05/12 06:31	JAD
TSS	1.50	mg/L(Dry)		1	1	SM 2540D Mod.	10/03/12 06:00	10/05/12 10:00	WB

Report No 03-1012

Date Received: 10/3/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
119161-03									
E. Coli	4	MPN		1	1	SM 9223B	10/03/12 10:30	10/03/12 14:50	BLS

Report No 03-1012

Date Received: 10/3/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Col. Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
119161-01									
CBOD	<15.0	mg/L	H2	2	2	SM 5210 B	10/03/12 06:00	10/10/12 14:00	PW
TSS	18.0	mg/L(Dry)		1	1	SM 2540D Mod.	10/03/12 06:00	10/05/12 10:00	WB



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
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Report No 03-1212

Date Received: 12/5/2012

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121082-02									
Ammonia	0.203	mg N/L		0.1	0.2	EPA 350.1(1993)	12/05/12 06:00	12/10/12 13:52	CR
CBOD	2.47	mg/L		2	2	SM 5210 B-2001	12/05/12 06:00	12/05/12 16:30	BKS
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	12/05/12 06:00	12/13/12 09:41	HW
NO2-/NO3	48.4	mg N/L		0.25	0.5	EPA 353.2(1993)	12/05/12 06:00	12/28/12 08:47	CR
TKN	1.74	mg N/L	M2	0.728	1.25	EPA 351.2(1993)	12/05/12 06:00	12/07/12 10:17	JAD
T-Phosphorous	6.49	mg P/L		0.26	0.5	EPA 365.4(1974)	12/05/12 06:00	12/07/12 10:17	JAD
TSS	8.52	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/05/12 06:00	12/07/12 11:30	WB
121082-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/05/12 10:00	12/05/12 16:10	BLS

Report No 03-1212

Date Received: 12/5/2012

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121082-01									
CBOD	18.8	mg/L		2	2	SM 5210 B-2001	12/05/12 06:00	12/05/12 16:30	BKS
TSS	35.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/05/12 06:00	12/07/12 11:30	WB

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Results of Analysis For: Ashland Water Works & Sewer Board
 Brent Wheeler
 P.O. Box 365
 Ashland, AL 36251

Report No 03-0113

Date Received: 1/2/2013

Location Effluent

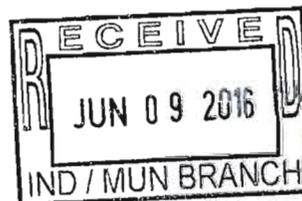
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121992-02									
Ammonia	6.12	mg N/L		0.1	0.2	EPA 350.1(1993)	01/02/13 06:00	01/04/13 08:53	CR
CBOD	8.88	mg/L		2	2	SM 5210 B-2001	01/02/13 06:00	01/02/13 16:45	PW
Lead	2.7	ug/L	N10	1.9	5	SM 3113B-2004	01/02/13 06:00	01/04/13 11:36	HW
NO2-/NO3	27.0	mg N/L		0.1	0.2	EPA 353.2(1993)	01/02/13 06:00	01/23/13 13:33	CR
TKN	7.49	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	01/02/13 06:00	01/09/13 09:17	CR
T-Phosphorous	5.33	mg P/L		0.26	0.5	EPA 365.4(1974)	01/02/13 06:00	01/09/13 09:17	CR
TSS	28.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	01/02/13 06:00	01/03/13 09:20	BKS
121992-03									
E. Coli	2	MPN		1	1	SM 9223B-2004	01/02/13 09:30	01/02/13 15:00	BLS

Report No 03-0113

Date Received: 1/2/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
121992-01									
CBOD	22.4	mg/L		2	2	SM 5210 B-2001	01/02/13 06:00	01/02/13 16:45	PW
TSS	32.7	mg/L(Dry)		1	1	SM 2540D Mod-1997	01/02/13 06:00	01/03/13 09:20	BKS





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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
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Report No 03-0213

Date Received: 2/6/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
123013-02									
Ammonia	4.45	mg N/L		0.1	0.2	EPA 350.1(1993)	02/06/13 06:00	02/11/13 13:12	CR
CBOD	4.13	mg/L		2	2	SM 5210 B-2001	02/06/13 06:00	02/06/13 17:00	PW
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	02/06/13 06:00	02/12/13 09:51	HW
NO2-/NO3	41.8	mg N/L		0.25	0.5	EPA 353.2(1993)	02/06/13 06:00	03/05/13 13:52	CR
TKN	4.82	mg N/L	Z1	0.728	1.25	EPA 351.2(1993)	02/06/13 06:00	02/08/13 09:31	CR
T-Phosphorous	5.45	mg P/L		0.26	0.5	EPA 365.4(1974)	02/06/13 06:00	02/08/13 09:31	CR
TSS	16.7	mg/L(Dry)		1	1	SM 2540D Mod-1997	02/06/13 06:00	02/08/13 11:00	WB
123013-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	02/06/13 09:30	02/06/13 15:38	BLS

Report No 03-0213

Date Received: 2/6/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
123013-01									
CBOD	95.3	mg/L		2	2	SM 5210 B-2001	02/06/13 06:00	02/06/13 17:00	PW
TSS	325	mg/L(Dry)		1	1	SM 2540D Mod-1997	02/06/13 06:00	02/08/13 11:00	WB



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Results of Analysis For: Ashland Water Works & Sewer Board
 Brent Wheeler
 P.O. Box 365
 Ashland, AL 36251

Report No 03-0313

Date Received: 3/6/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
123801-02									
Ammonia	6.33	mg N/L		0.074	0.2	EPA 350.1(1993)	03/06/13 06:00	03/11/13 13:01	CR
CBOD	8.08	mg/L		2	2	SM 5210 B-2001	03/06/13 06:00	03/06/13 17:25	PW
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	03/06/13 06:00	03/13/13 08:40	HW
NO2-/NO3	35.3	mg N/L		0.25	0.5	EPA 353.2(1993)	03/06/13 06:00	03/19/13 13:54	CR
TKN	8.73	mg N/L		0.494	1.25	EPA 351.2(1993)	03/06/13 06:00	03/08/13 11:08	CR
T-Phosphorous	5.92	mg P/L		0.064	0.5	EPA 365.4(1974)	03/06/13 06:00	03/08/13 11:08	CR
TSS	14.3	mg/L(Dry)		1	1	SM 2540D Mod-1997	03/06/13 06:00	03/08/13 10:40	WB
123801-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	03/06/13 09:30	03/06/13 14:20	HW

Report No 03-0313

Date Received: 3/6/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
123801-01									
CBOD	125	mg/L		2	2	SM 5210 B-2001	03/06/13 06:00	03/06/13 17:25	PW
TSS	2,200	mg/L(Dry)		1	1	SM 2540D Mod-1997	03/06/13 06:00	03/08/13 10:40	WB



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0413

Date Received: 4/3/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
124600-02									
Ammonia	8.44	mg N/L		0.074	0.2	EPA 350.1(1993)	04/03/13 06:00	04/08/13 14:45	CR
CBOD	3.42	mg/L		2	2	SM 5210 B-2001	04/03/13 06:00	04/03/13 17:00	PW
Lead	<1.9	ug/L		1.9	5	SM3113 B-2004	04/03/13 06:00	04/10/13 13:53	HW
NO2-/NO3	33.4	mg N/L		0.18	0.4	EPA 353.2(1993)	04/03/13 06:00	05/01/13 12:13	CR
TKN	8.48	mg N/L		0.494	1.25	EPA 351.2(1993)	04/03/13 06:00	04/05/13 11:15	CR
T-Phosphorous	6.98	mg P/L		0.064	0.5	EPA 365.4(1974)	04/03/13 06:00	04/05/13 11:15	CR
TSS	14.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	04/03/13 06:00	04/08/13 14:30	CLC

Report No 03-0413

Date Received: 4/3/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
124600-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	04/03/13 09:30	04/03/13 15:00	CJW

Report No 03-0413

Date Received: 4/3/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
124600-01									
CBOD	85.7	mg/L		2	2	SM 5210 B-2001	04/03/13 06:00	04/03/13 17:00	PW
TSS	165	mg/L(Dry)		1	1	SM 2540D Mod-1997	04/03/13 06:00	04/08/13 14:30	CLC



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
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Ashland, AL 36251

Report No 03-0513

Date Received: 5/1/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
125390-02									
Ammonia	0.101	mg N/L	N10	0.074	0.2	EPA 350.1(1993)	05/01/13 06:00	05/06/13 14:07	CR
CBOD	2.38	mg/L		2	2	SM 5210 B-2001	05/01/13 06:00	05/01/13 16:00	PW
Lead	<1.90	ug/L		1.9	5	SM 3113B-2004	05/01/13 06:00	05/07/13 13:51	HW
NO2-/NO3	41.8	mg N/L		0.09	0.2	EPA 353.2(1993)	05/01/13 06:00	05/14/13 13:36	CR
TKN	<0.494	mg N/L		0.494	1.25	EPA 351.2(1993)	05/01/13 06:00	05/03/13 12:59	CR
T-Phosphorous	6.41	mg P/L		0.064	0.5	EPA 365.4(1974)	05/01/13 06:00	05/03/13 12:59	CR
TSS	7.47	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/01/13 06:00	05/03/13 10:30	WB
125390-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/01/13 09:00	05/01/13 14:50	HW

Report No 03-0513

Date Received: 5/1/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
125390-01									
CBOD	71.9	mg/L		2	2	SM 5210 B-2001	05/01/13 06:00	05/01/13 16:00	PW
TSS	167	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/01/13 06:00	05/03/13 10:30	WB



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
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Ashland, AL 36251

Report No 03-0713

Date Received: 7/3/2013

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
127253-02									
Ammonia	<0.074	mg N/L		0.074	0.2	EPA 350.1(1993)	07/03/13 06:00	07/09/13 13:41	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	07/03/13 06:00	07/03/13 16:00	CJW
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	07/03/13 06:00	07/10/13 15:13	HW
NO2-/NO3	40.6	mg N/L		0.18	0.4	EPA 353.2(1993)	07/03/13 06:00	07/19/13 14:00	CR
TKN	<0.494	mg N/L		0.494	1.25	EPA 351.2(1993)	07/03/13 06:00	07/12/13 09:31	CR
T-Phosphorous	6.49	mg P/L		0.064	0.5	EPA 365.4(1974)	07/03/13 06:00	07/12/13 09:31	CR
TSS	2.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	07/03/13 06:00	07/09/13 15:00	CLC

Report No 03-0713

Date Received: 7/3/2013

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
127253-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	07/03/13 09:30	07/03/13 14:55	JCF

Report No 03-0713

Date Received: 7/3/2013

Location influent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
127253-01									
CBOD	115	mg/L		2	2	SM 5210 B-2001	07/03/13 06:00	07/03/13 16:00	CJW
TSS	255	mg/L(Dry)		1	1	SM 2540D Mod-1997	07/03/13 06:00	07/09/13 15:00	CLC



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
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Report No 03-0813

Date Received: 8/7/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
128486-02									
Ammonia	<0.074	mg N/L		0.074	0.2	EPA 350.1(1993)	08/07/13 06:00	08/12/13 13:20	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	08/07/13 06:00	08/07/13 16:00	PW
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	08/07/13 06:00	08/14/13 13:01	HW
NO2-/NO3	37.3	mg N/L		0.09	0.2	EPA 353.2(1993)	08/07/13 06:00	08/29/13 12:05	CR
TKN	<0.494	mg N/L		0.494	1.25	EPA 351.2(1993)	08/07/13 06:00	08/09/13 13:33	CR
T-Phosphorous	7.03	mg P/L		0.064	0.5	EPA 365.4(1974)	08/07/13 06:00	08/09/13 13:33	CR
TSS	4.22	mg/L(Dry)		1	1	SM 2540D Mod-1997	08/07/13 06:00	08/08/13 12:00	WB
128486-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	08/07/13 09:30	08/07/13 16:45	CJW

Report No 03-0813

Date Received: 8/7/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
128486-01									
CBOD	40.6	mg/L		2	2	SM 5210 B-2001	08/07/13 06:00	08/07/13 16:00	PW
TSS	100	mg/L(Dry)		1	1	SM 2540D Mod-1997	08/07/13 06:00	08/08/13 12:00	WB



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0913

Date Received: 9/4/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
129570-02									
Ammonia	0.0914	mg N/L	N10	0.074	0.2	EPA 350.1(1993)	09/04/13 06:00	09/09/13 12:48	CR
CBOD	<2.00	mg/L	K6	2	2	SM 5210 B-2001	09/04/13 06:00	09/04/13 17:00	PW
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	09/04/13 06:00	09/10/13 12:15	HW
NO2-/NO3	45.6	mg N/L		0.18	0.4	EPA 353.2(1993)	09/04/13 06:00	09/19/13 11:47	CR
TKN	0.971	mg N/L	N10	0.494	1.25	EPA 351.2(1993)	09/04/13 06:00	09/10/13 13:18	CR
T-Phosphorous	7.78	mg P/L		0.064	0.5	EPA 365.4(1974)	09/04/13 06:00	09/10/13 13:18	CR
TSS	3.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	09/04/13 06:00	09/07/13 15:30	CLC
129570-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	09/04/13 09:30	09/04/13 14:30	HW

Report No 03-0913

Date Received: 9/4/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
129570-01									
CBOD	48.5	mg/L	K6	2	2	SM 5210 B-2001	09/04/13 06:00	09/04/13 17:00	PW
TSS	130	mg/L(Dry)		1	1	SM 2540D Mod-1997	09/04/13 06:00	09/07/13 15:30	CLC



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1013

Date Received: 10/2/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
130455-02									
Ammonia	2.41	mg N/L		0.074	0.2	EPA 350.1(1993)	10/02/13 06:00	10/07/13 12:38	CR
CBOD	2.31	mg/L		2	2	SM 5210 B-2001	10/02/13 06:00	10/02/13 16:40	CJW
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	10/02/13 06:00	10/09/13 10:35	HW
NO2-/NO3	54.3	mg N/L		0.18	0.4	EPA 353.2(1993)	10/02/13 06:00	10/25/13 14:27	CR
TKN	1.47	mg N/L		0.494	1.25	EPA 351.2(1993)	10/02/13 06:00	10/04/13 11:22	CR
T-Phosphorous	10.2	mg P/L		0.064	0.5	EPA 365.4(1974)	10/02/13 06:00	10/04/13 11:22	CR
TSS	25.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	10/02/13 06:00	10/04/13 12:00	SH
130455-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	10/02/13 09:30	10/02/13 14:45	JCF

Report No 03-1013

Date Received: 10/2/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
130455-01									
CBOD	60.2	mg/L		2	2	SM 5210 B-2001	10/02/13 06:00	10/02/13 16:40	CJW
TSS	146	mg/L(Dry)		1	1	SM 2540D Mod-1997	10/02/13 06:00	10/04/13 12:00	SH



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Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1013

Date Received: 10/9/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
130841-02									
Ammonia	<0.074	mg N/L		0.074	0.2	EPA 350.1(1993)	10/09/13 06:00	10/14/13 14:22	CR
CBOD	2.82	mg/L		2	2	SM 5210 B-2001	10/09/13 06:00	10/09/13 15:30	CJW
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	10/09/13 06:00	10/22/13 11:02	HW
NO2-/NO3	38.4	mg N/L		0.09	0.2	EPA 353.2(1993)	10/09/13 06:00	10/28/13 09:12	CR
TKN	1.98	mg N/L		0.494	1.25	EPA 351.2(1993)	10/09/13 06:00	10/11/13 11:05	CR
T-Phosphorous	8.83	mg P/L		0.064	0.5	EPA 365.4(1974)	10/09/13 06:00	10/11/13 11:05	CR
TSS	29.2	mg/L(Dry)		1	1	SM 2540D Mod-1997	10/09/13 06:00	10/11/13 11:15	WB
130841-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	10/09/13 09:30	10/09/13 15:00	JCF

Report No 03-1013

Date Received: 10/9/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
130841-01									
CBOD	78.5	mg/L		2	2	SM 5210 B-2001	10/09/13 06:00	10/09/13 15:30	CJW
TSS	193	mg/L(Dry)		1	1	SM 2540D Mod-1997	10/09/13 06:00	10/11/13 11:15	WB



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1113

Date Received: 11/6/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
131734-02									
Ammonia	9.67	mg N/L		0.074	0.2	EPA 350.1(1993)	11/06/13 06:00	11/11/13 12:35	CR
CBOD	3.09	mg/L		2	2	SM 5210 B-2001	11/06/13 06:00	11/06/13 17:00	CJW
Lead	<1.9	ug/L	N14	1.9	5	SM 3113B-2004	11/06/13 06:00	11/13/13 09:35	HW
NO2-/NO3	45.4	mg N/L		0.18	0.4	EPA 353.2(1993)	11/06/13 06:00	12/02/13 10:42	CR
TKN	6.26	mg N/L		0.494	1.25	EPA 351.2(1993)	11/06/13 06:00	11/15/13 09:25	CR
T-Phosphorous	9.58	mg P/L		0.064	0.5	EPA 365.4(1974)	11/06/13 06:00	11/15/13 09:25	CR
TSS	17.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	11/06/13 06:00	11/11/13 13:50	HK
131734-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	11/06/13 09:00	11/06/13 14:50	JCF

Report No 03-1113

Date Received: 11/6/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
131734-01									
CBOD	111	mg/L		2	2	SM 5210 B-2001	11/06/13 06:00	11/06/13 17:00	CJW
TSS	245	mg/L(Dry)		1	1	SM 2540D Mod-1997	11/06/13 06:00	11/11/13 13:50	HK

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Results of Analysis For: Ashland Water Works & Sewer Board
 Brent Wheeler
 P.O. Box 365
 Ashland, AL 36251

Report No 03-1213

Date Received: 12/4/2013

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
132501-02									
Ammonia	10.0	mg N/L		0.074	0.2	EPA 350.1(1993)	12/04/13 06:00	12/09/13 13:14	CR
CBOD	4.30	mg/L		2	2	SM 5210 B-2001	12/04/13 06:00	12/04/13 16:50	CJW
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	12/04/13 06:00	12/10/13 10:51	HW
NO2-/NO3	34.7	mg N/L		0.09	0.2	EPA 353.2(1993)	12/04/13 06:00	12/16/13 11:35	CR
TKN	9.50	mg N/L		0.494	1.25	EPA 351.2(1993)	12/04/13 06:00	12/13/13 11:02	CR
T-Phosphorous	8.06	mg P/L		0.064	0.5	EPA 365.4(1974)	12/04/13 06:00	12/13/13 11:02	CR
TSS	12.9	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/04/13 06:00	12/06/13 11:00	WB
132501-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	12/04/13 08:30	12/04/13 15:45	HW

Report No 03-1213

Date Received: 12/4/2013

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
132501-01									
CBOD	209	mg/L		2	2	SM 5210 B-2001	12/04/13 06:00	12/04/13 16:50	CJW
TSS	550	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/04/13 06:00	12/06/13 11:00	WB



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0114

Date Received: 1/8/2014

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
133368-02									
Ammonia	13.3	mg N/L		0.074	0.2	EPA 350.1(1993)	01/08/14 06:00	01/13/14 11:33	CR
CBOD	5.88	mg/L		2	2	SM 5210 B-2001	01/08/14 06:00	01/08/14 17:00	CJW
Lead	<1.9	ug/L		1.9	5	SM 3113B-2004	01/08/14 06:00	01/14/14 09:55	HW
NO2-/NO3	19.9	mg N/L		0.045	0.1	EPA 353.2(1993)	01/08/14 06:00	01/16/14 13:28	CR
TKN	16.1	mg N/L		0.494	1.25	EPA 351.2(1993)	01/08/14 06:00	01/10/14 10:34	CR
T-Phosphorous	5.88	mg P/L		0.064	0.5	EPA 365.4(1974)	01/08/14 06:00	01/10/14 10:34	CR
TSS	55.7	mg/L(Dry)		1	1	SM 2540D Mod-1997	01/08/14 06:00	01/10/14 15:00	MO

Report No 03-0114

Date Received: 1/8/2014

Location Effluent qrtly

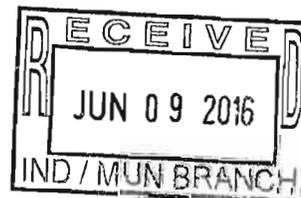
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
133368-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	01/08/14 08:30	01/08/14 15:15	JCF

Report No 03-0114

Date Received: 1/8/2014

Location influent artly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
133368-01									
CBOD	67.4	mg/L		2	2	SM 5210 B-2001	01/08/14 06:00	01/08/14 17:00	CJW
TSS	66.7	mg/L(Dry)		1	1	SM 2540D Mod-1997	01/08/14 06:00	01/10/14 15:00	MO





ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0214

Date Received: 2/5/2014

Location Effluent 1st week

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
134116-02									
Ammonia	0.070	mg N/L	N10	0.05	0.2	EPA 350.1(1993)	02/05/14 06:00	02/10/14 12:40	CR
CBOD	2.84	mg/L		2	2	SM 5210 B-2001	02/05/14 06:00	02/05/14 17:25	HU
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	02/05/14 06:00	02/12/14 13:10	HW
NO2-/NO3	38.0	mg N/L		0.09	0.2	EPA 353.2(1993)	02/05/14 06:00	02/11/14 13:03	CR
TKN	1.35	mg N/L		0.5	1.25	EPA 351.2(1993)	02/05/14 06:00	02/07/14 12:56	CR
T-Phosphorous	7.52	mg P/L		0.12	0.5	EPA 365.4(1974)	02/05/14 06:00	02/07/14 12:56	CR
TSS	6.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	02/05/14 06:00	02/07/14 14:00	MO
134116-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	02/05/14 08:30	02/05/14 15:10	CJW

Report No 03-0214

Date Received: 2/5/2014

Location influent 1st week

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
134116-01									
CBOD	>198	mg/L		2	2	SM 5210 B-2001	02/05/14 06:00	02/05/14 17:25	HU
CBOD Retest	235	mg/L		2	2	SM 5210 B-2001	02/05/14 06:00	02/11/14 16:00	CJW
TSS	530	mg/L(Dry)		1	1	SM 2540D Mod-1997	02/05/14 06:00	02/07/14 14:00	MO



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
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Ashland, AL 36251

Report No 03-0314

Date Received: 3/5/2014

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
134844-02									
Ammonia	6.75	mg N/L		0.05	0.2	EPA 350.1(1993)	03/05/14 06:00	03/10/14 14:42	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	03/05/14 06:00	03/05/14 16:50	HU
Lead	<1.8	ug/L	N14	1.8	5	SM 3113B-2004	03/05/14 06:00	03/10/14 13:17	HW
NO2-/NO3	20.5	mg N/L		0.045	0.1	EPA 353.2(1993)	03/05/14 06:00	03/07/14 13:41	CR
TKN	7.64	mg N/L	Z1	0.5	1.25	EPA 351.2(1993)	03/05/14 06:00	03/07/14 10:50	CR
T-Phosphorous	4.66	mg P/L		0.12	0.5	EPA 365.4(1974)	03/05/14 06:00	03/07/14 10:50	CR
TSS	10.0	mg/L(Dry)		1	1	SM 2540D Mod-1997	03/05/14 06:00	03/07/14 13:00	MO
134844-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	03/05/14 08:30	03/05/14 15:45	CJW

Report No 03-0314

Date Received: 3/5/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
134844-01									
CBOD	52.0	mg/L		2	2	SM 5210 B-2001	03/05/14 06:00	03/05/14 16:50	HU
TSS	530	mg/L(Dry)		1	1	SM 2540D Mod-1997	03/05/14 06:00	03/07/14 13:00	MO



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
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Ashland, AL 36251

Report No 03-0414

Date Received: 4/9/2014

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
135860-02									
Ammonia	1.45	mg N/L		0.05	0.2	EPA 350.1(1993)	04/09/14 06:00	04/14/14 14:51	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	04/09/14 06:00	04/09/14 16:40	MO
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	04/09/14 06:00	04/16/14 09:38	HW
NO2-/NO3	12.1	mg N/L		0.045	0.1	EPA 353.2(1993)	04/09/14 06:00	04/11/14 14:55	CR
TKN	1.98	mg N/L		0.5	1.25	EPA 351.2(1993)	04/09/14 06:00	04/18/14 10:18	CR
T-Phosphorous	2.50	mg P/L	N9	0.12	0.5	EPA 365.4(1974)	04/09/14 06:00	04/18/14 10:18	CR
TSS	2.75	mg/L(Dry)		1	1	SM 2540D Mod-1997	04/09/14 06:00	04/11/14 10:00	BEH

Report No 03-0414

Date Received: 4/9/2014

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
135860-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	04/09/14 08:30	04/09/14 16:30	HW

Report No 03-0414

Date Received: 4/9/2014

Location influent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
135860-01									
CBOD	98.3	mg/L		2	2	SM 5210 B-2001	04/09/14 06:00	04/09/14 16:40	MO
TSS	172	mg/L(Dry)		1	1	SM 2540D Mod-1997	04/09/14 06:00	04/11/14 10:00	BEH



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0514

Date Received: 5/7/2014

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
136629-02									
Ammonia	6.64	mg N/L		0.05	0.2	EPA 350.1(1993)	05/07/14 06:00	05/13/14 13:34	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	05/07/14 06:00	05/07/14 16:30	HU
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	05/07/14 06:00	05/13/14 09:14	HW
NO2-/NO3	12.2	mg N/L		0.045	0.1	EPA 353.2(1993)	05/07/14 06:00	05/30/14 13:42	CR
TKN	5.05	mg N/L		0.5	1.25	EPA 351.2(1993)	05/07/14 06:00	05/16/14 11:39	CR
T-Phosphorous	4.01	mg P/L		0.12	0.5	EPA 365.4(1974)	05/07/14 06:00	05/16/14 11:39	CR
TSS	2.89	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/07/14 06:00	05/08/14 13:00	HU
136629-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	05/07/14 09:00	05/07/14 17:10	MO

Report No 03-0514

Date Received: 5/7/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
136629-01									
CBOD	165	mg/L		2	2	SM 5210 B-2001	05/07/14 06:00	05/07/14 16:30	HU
TSS	467	mg/L(Dry)		1	1	SM 2540D Mod-1997	05/07/14 06:00	05/08/14 13:00	HU



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Report No 03-0614

Date Received: 6/4/2014

Location Effluent

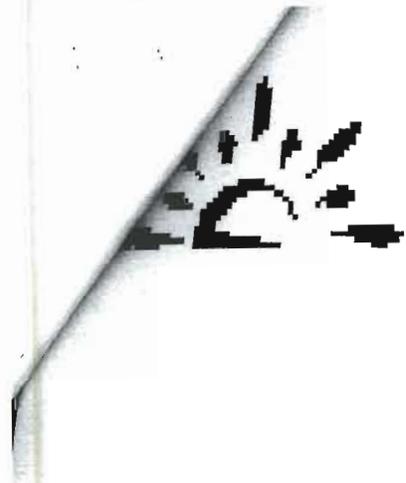
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
137394-02									
Ammonia	3.48	mg N/L		0.05	0.2	EPA 350.1(1993)	06/04/14 06:00	06/09/14 13:35	CR
CBOD	2.71	mg/L		2	2	SM 5210 B-2001	06/04/14 06:00	06/04/14 17:00	HU
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	06/04/14 06:00	06/10/14 09:17	HW
NO2-/NO3	18.8	mg N/L		0.045	0.1	EPA 353.2(1993)	06/04/14 06:00	06/05/14 15:10	CR
TKN	6.97	mg N/L		0.5	1.25	EPA 351.2(1993)	06/04/14 06:00	06/06/14 11:41	CR
T-Phosphorous	4.70	mg P/L		0.12	0.5	EPA 365.4(1974)	06/04/14 06:00	06/06/14 11:41	CR
TSS	5.14	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/04/14 06:00	06/06/14 15:00	HU
137394-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/04/14 09:00	06/04/14 14:45	HW

Report No 03-0614

Date Received: 6/4/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
137394-01									
CBOD	125	mg/L		2	2	SM 5210 B-2001	06/04/14 06:00	06/04/14 17:00	HU
TSS	273	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/04/14 06:00	06/06/14 15:00	HU



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
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Report No 03-0614

Date Received: 6/13/2014

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
137632-02									
Ammonia	0.188	mg N/L	N10	0.05	0.2	EPA 350.1(1993)	06/13/14 06:00	06/19/14 17:17	CR
CBOD	2.10	mg/L		2	2	SM 5210 B-2001	06/13/14 06:00	06/13/14 15:00	PW
Lead	2.3	ug/L	N10,N14	1.8	5	SM 3113B-2004	06/13/14 06:00	06/16/14 13:32	HW
NO2-/NO3	36.8	mg N/L		0.225	0.5	EPA 353.2(1993)	06/13/14 06:00	06/25/14 13:38	CR
TKN	1.56	mg N/L		0.5	1.25	EPA 351.2(1993)	06/13/14 06:00	06/20/14 11:47	CR
T-Phosphorous	6.62	mg P/L		0.12	0.5	EPA 365.4(1974)	06/13/14 06:00	06/20/14 11:47	CR
TSS	9.60	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/13/14 06:00	06/19/14 15:00	HU
137632-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	06/13/14 09:00	06/13/14 15:00	MO

Report No 03-0614

Date Received: 6/13/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
137632-01									
CBOD	82.5	mg/L		2	2	SM 5210 B-2001	06/13/14 06:00	06/13/14 15:00	PW
TSS	313	mg/L(Dry)		1	1	SM 2540D Mod-1997	06/13/14 06:00	06/19/14 15:00	HU



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Results of Analysis For: Ashland Water Works & Sewer Board
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Report No 03-0714

Date Received: 7/2/2014

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
138209-02									
Ammonia	0.231	mg N/L		0.05	0.2	EPA 350.1(1993)	07/02/14 06:00	07/07/14 15:27	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	07/02/14 06:00	07/02/14 16:50	CDR
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	07/02/14 06:00	07/10/14 09:36	HW
NO2-/NO3	17.4	mg N/L		0.045	0.1	EPA 353.2(1993)	07/02/14 06:00	07/14/14 13:16	CR
TKN	0.662	mg N/L	N10	0.5	1.25	EPA 351.2(1993)	07/02/14 06:00	07/03/14 16:13	CR
T-Phosphorous	4.95	mg P/L		0.12	0.5	EPA 365.4(1974)	07/02/14 06:00	07/03/14 16:13	CR
TSS	2.20	mg/L(Dry)		1	1	SM 2540D Mod-1997	07/02/14 06:00	07/07/14 14:30	BEH
138209-03									
E. Coli	1	MPN	N10	1	1	SM 9223B-2004	07/02/14 09:00	07/02/14 15:05	HW

Report No 03-0714

Date Received: 7/2/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
138209-01									
CBOD	90.6	mg/L		2	2	SM 5210 B-2001	07/02/14 06:00	07/02/14 16:50	CDR
TSS	297	mg/L(Dry)		1	1	SM 2540D Mod-1997	07/02/14 06:00	07/07/14 14:30	BEH



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
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Ashland, AL 36251

Report No 03-0814

Date Received: 8/6/2014

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
139229-02									
Ammonia	13.5	mg N/L		0.05	0.2	EPA 350.1(1993)	08/06/14 07:10	08/11/14 15:08	CR
CBOD	6.29	mg/L		2	2	SM 5210 B-2001	08/06/14 07:10	08/06/14 17:30	CDR
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	08/06/14 07:10	08/12/14 09:37	HW
NO2-/NO3	33.4	mg N/L		0.18	0.4	EPA 353.2(1993)	08/06/14 07:10	08/15/14 15:41	CR
TKN	15.5	mg N/L		0.5	1.25	EPA 351.2(1993)	08/06/14 07:10	08/08/14 10:15	CR
T-Phosphorous	9.16	mg P/L		0.12	0.5	EPA 365.4(1974)	08/06/14 07:10	08/08/14 10:15	CR
TSS	9.00	mg/L(Dry)		1	1	SM 2540D Mod-1997	08/06/14 07:10	08/07/14 14:00	EC
139229-03									
E. Coli	1553	MPN		1	1	SM 9223B-2004	08/06/14 11:10	08/06/14 16:47	HW

Report No 03-0814

Date Received: 8/6/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
139229-01									
CBOD	86.6	mg/L		2	2	SM 5210 B-2001	08/06/14 07:05	08/06/14 17:30	CDR
TSS	255	mg/L(Dry)		1	1	SM 2540D Mod-1997	08/06/14 07:05	08/07/14 14:00	EC



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Results of Analysis For: Ashland Water Works & Sewer Board
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P.O. Box 365
Ashland, AL 36251

Report No 03-0914

Date Received: 9/3/2014

Location Effluent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
140136-02									
Ammonia	0.206	mg N/L		0.05	0.2	EPA 350.1(1993)	09/03/14 06:00	09/08/14 16:27	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	09/03/14 06:00	09/03/14 17:30	YA
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	09/03/14 06:00	09/10/14 09:24	HW
NO2-/NO3	17.4	mg N/L		0.045	0.1	EPA 353.2(1993)	09/03/14 06:00	09/16/14 13:33	CR
TKN	0.624	mg N/L	N10	0.5	1.25	EPA 351.2(1993)	09/03/14 06:00	09/12/14 09:46	CR
T-Phosphorous	3.91	mg P/L		0.12	0.5	EPA 365.4(1974)	09/03/14 06:00	09/12/14 09:46	CR
TSS	1.60	mg/L(Dry)		1	1	SM 2540D Mod-1997	09/03/14 06:00	09/05/14 12:30	LL
140136-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	09/03/14 09:00	09/03/14 15:00	AF

Report No 03-0914

Date Received: 9/3/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
140136-01									
CBOD	173	mg/L		2	2	SM 5210 B-2001	09/03/14 06:00	09/03/14 17:30	YA
TSS	485	mg/L(Dry)		1	1	SM 2540D Mod-1997	09/03/14 06:00	09/05/14 12:30	LL



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
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Report No 03-1014

Date Received: 10/1/2014

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
140989-02									
Ammonia	3.50	mg N/L		0.05	0.2	EPA 350.1(1993)	10/01/14 06:00	10/06/14 14:37	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	10/01/14 06:00	10/01/14 17:15	YA
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	10/01/14 06:00	10/09/14 08:47	HW
NO2-/NO3	16.0	mg N/L		0.045	0.1	EPA 353.2(1993)	10/01/14 06:00	10/02/14 15:37	CR
TKN	5.93	mg N/L		0.5	1.25	EPA 351.2(1993)	10/01/14 06:00	10/03/14 11:35	CR
T-Phosphorous	4.37	mg P/L		0.12	0.5	EPA 365.4(1974)	10/01/14 06:00	10/03/14 11:35	CR
TSS	11.6	mg/L(Dry)		1	1	SM 2540D Mod-1997	10/01/14 06:00	10/03/14 11:30	LL
140989-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	10/01/14 09:00	10/01/14 15:25	AF

Report No 03-1014

Date Received: 10/1/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
140989-01									
CBOD	56.8	mg/L		2	2	SM 5210 B-2001	10/01/14 06:00	10/01/14 17:15	YA
TSS	100	mg/L(Dry)		1	1	SM 2540D Mod-1997	10/01/14 06:00	10/03/14 11:30	LL



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-1114

Date Received: 11/5/2014

Location Effluent 1st week

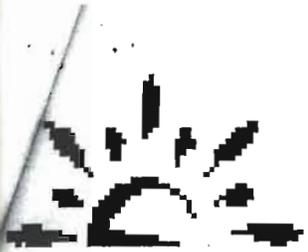
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
142060-02									
Ammonia	11.1	mg N/L		0.05	0.2	EPA 350.1(1993)	11/05/14 06:00	11/10/14 16:09	CR
CBOD	2.11	mg/L		2	2	SM 5210 B-2001	11/05/14 06:00	11/05/14 17:20	YA
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	11/05/14 06:00	11/12/14 09:32	HW
NO2-/NO3	12.7	mg N/L		0.045	0.1	EPA 353.2(1993)	11/05/14 06:00	11/18/14 13:34	CR
TKN	11.8	mg N/L		0.5	1.25	EPA 351.2(1993)	11/05/14 06:00	11/07/14 13:09	CR
T-Phosphorous	4.20	mg P/L		0.12	0.5	EPA 365.4(1974)	11/05/14 06:00	11/07/14 13:09	CR
TSS	20.7	mg/L(Dry)		1	1	SM 2540D Mod-1997	11/05/14 06:00	11/06/14 13:00	LL
142060-03									
E. Coli	3	MPN		1	1	SM 9223B-2004	11/05/14 09:00	11/05/14 16:30	HW

Report No 03-1114

Date Received: 11/5/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
142060-01									
CBOD	64.4	mg/L		2	2	SM 5210 B-2001	11/05/14 06:00	11/05/14 17:20	YA
TSS	140	mg/L(Dry)		1	1	SM 2540D Mod-1997	11/05/14 06:00	11/06/14 13:00	LL



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Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
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Ashland, AL 36251

Report No 03-1214

Date Received: 12/3/2014

Location Effluent 1st week

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
142832-02									
Ammonia	6.87	mg N/L		0.05	0.2	EPA 350.1(1993)	12/03/14 06:00	12/15/14 13:28	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	12/03/14 06:00	12/03/14 17:00	YA
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	12/03/14 06:00	12/10/14 09:53	HW
NO2-/NO3	14.6	mg N/L		0.045	0.1	EPA 353.2(1993)	12/03/14 06:00	12/16/14 12:40	CR
TKN	6.50	mg N/L		0.5	1.25	EPA 351.2(1993)	12/03/14 06:00	12/05/14 12:41	CR
T-Phosphorous	2.88	mg P/L		0.12	0.5	EPA 365.4(1974)	12/03/14 06:00	12/05/14 12:41	CR
TSS	10.4	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/03/14 06:00	12/05/14 16:05	LL
142832-03									
E. Coli	17	MPN		1	1	SM 9223B-2004	12/03/14 09:00	12/03/14 15:00	AF

Report No 03-1214

Date Received: 12/3/2014

Location influent

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
142832-01									
CBOD	90.9	mg/L		2	2	SM 5210 B-2001	12/03/14 06:00	12/03/14 17:00	YA
TSS	168	mg/L(Dry)		1	1	SM 2540D Mod-1997	12/03/14 06:00	12/05/14 16:05	LL



ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

Results of Analysis For: Ashland Water Works & Sewer Board
Brent Wheeler
P.O. Box 365
Ashland, AL 36251

Report No 03-0115

Date Received: 1/7/2015

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
143767-02									
Ammonia	1.61	mg N/L		0.05	0.2	EPA 350.1(1993)	01/07/15 06:00	01/13/15 13:20	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	01/07/15 06:00	01/07/15 17:15	YA
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	01/07/15 06:00	01/21/15 08:41	HW
NO2-/NO3	11.8	mg N/L		0.045	0.1	EPA 353.2(1993)	01/07/15 06:00	01/15/15 13:21	CR
TKN	2.14	mg N/L		0.5	1.25	EPA 351.2(1993)	01/07/15 06:00	01/16/15 13:21	CR
T-Phosphorous	2.33	mg P/L		0.12	0.5	EPA 365.4(1974)	01/07/15 06:00	01/16/15 13:21	CR
TSS	5.78	mg/L(Dry)		1	1	SM 2540D Mod-1997	01/07/15 06:00	01/09/15 14:00	LL

Report No 03-0115

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Location Effluent qrtly

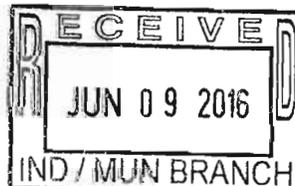
<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
143767-03									
E. Coli	<1	MPN		1	1	SM 9223B-2004	01/07/15 08:30	01/07/15 14:50	AF

Report No 03-0115

Date Received: 1/7/2015

Location influent artly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
143767-01									
CBOD	29.3	mg/L		2	2	SM 5210 B-2001	01/07/15 06:00	01/07/15 17:15	YA
TSS	52.5	mg/L(Dry)		1	1	SM 2540D Mod-1997	01/07/15 06:00	01/09/15 14:00	LL





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Brent Wheeler
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Report No 03-0415

Date Received: 4/3/2015

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
146116-02									
Ammonia	2.56	mg N/L		0.1	0.2	EPA 350.1(1993)	04/03/15 06:00	04/06/15 15:11	CR
CBOD	<2.00	mg/L		2	2	SM 5210 B-2001	04/03/15 06:00	04/03/15 15:15	CDR
Lead	<1.8	ug/L		1.8	5	SM 3113B-2004	04/03/15 06:00	04/06/15 12:51	HW
NO2-/NO3	11.7	mg N/L		0.045	0.1	EPA 353.2(1993)	04/03/15 06:00	04/17/15 09:18	CR
TKN	8.09	mg N/L		0.5	1.25	EPA 351.2(1993)	04/03/15 06:00	04/10/15 12:48	CR
T-Phosphorous	8.04	mg P/L		0.1	0.5	EPA 365.4(1974)	04/03/15 06:00	04/10/15 12:48	CR
TSS	2.50	mg/L(Dry)		1	1	SM 2540D Mod-1997	04/03/15 06:00	04/07/15 13:30	LL

Report No 03-0415

Date Received: 4/3/2015

Location Effluent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
146116-03									
E. Coli	5	MPN		1	1	SM 9223B-2004	04/03/15 08:00	04/03/15 14:30	AF

Report No 03-0415

Date Received: 4/3/2015

Location influent qrtly

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Qual.</u>	<u>MDL</u>	<u>PQL</u>	<u>Method</u>	<u>Collection Date/Time</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>
146116-01									
CBOD	84.1	mg/L		2	2	SM 5210 B-2001	04/03/15 06:00	04/03/15 15:15	CDR
TSS	215	mg/L(Dry)		1	1	SM 2540D Mod-1997	04/03/15 06:00	04/07/15 13:30	LL