

KAY IVEY GOVERNOR

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MARCH 29, 2023

Daryl Williamson CEO Limestone County Water and Sewer Authority Post Office Box 110 Athens, AL 35612

RI:: Draft Permit NPDES Permit No. AL0056545 Elkmont Rural Village WWTP Limestone County, Alabama

Dear Mr. Williamson:

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 Parts I.C.1.c and I.C.2.e of your permit require participation in the Department's Alabama Environmental Permitting and Compliance System (AEPACS) for submittal of DMRs and SSOs upon issuance of this permit unless valid justification as to why you cannot participate is submitted in writing. SSO hotline notifications and hard copy Form 415 SSO reports may be used only with the written approval from the Department. AEPACS allows ADEM to electronically validate and acknowledge receipt of the data. This improves the accuracy of reported compliance data and reduces costs to both the regulated community and ADEM. Please note that all AEPACS users can create the electronic DMRs and SSOs: however, only AEPACS users with certifier permissions will be able to submit the electronic DMRs and SSOs to ADEM.

Our records indicate that you have utilized the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs) and sanitary sewer overflow (SSO) notifications/reports. The Department transitioned from the E2 Reporting System to the Alabama Environmental Permitting and Compliance System (AEPACS) for the submittal of DMRs and SSOs on November 15, 2021. AEPACS is an electronic system that allows facilities to apply for and maintain permits as well as submit other required applications, registrations, and certifications. In addition, the system allows facilities to submit required compliance reports or other information to the Department. The Department has used the E2 User account information to set up a similar User Profile in AEPACS based on the following criteria:

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

 2204 Perimeter Road

 Mobile, AL 36615-1131

 (251) 450-3400

 (251) 479-2593 (FAX)

Mobile-Coastal 3664 Dauphin Street, Suite B Mobile, AL 36608 (251) 304-1176 (251) 304-1189 (FAX)

- 1. The user has logged in to E2 since October 1, 2019; and
- 2. The E2 user account is set up using a unique email address.

E2 users that met the above criteria will only need to establish an ADEM Web Portal account (<u>https://prd.adem.alabama.gov/awp</u>) under the same email address as their E2 account to have the same permissions in AEPACS as they did in E2. They will also automatically be linked to the same facilities they were in E2.

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

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

Should you have any questions, please contact the undersigned slee@adem.alabama.gov.

Sincerely,

Sandre 2

Sandra Lee 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:

LIMESTONE COUNTY WATER AND SEWER AUTHORITY POST OFFICE BOX 110 ATHENS, AL 35612

FACILITY LOCATION:

ELKMONT RURAL VILLAGE WWTP 18458 RURAL VILLAGE BACK WAY ELKMONT, ALABAMA LIMESTONE COUNTY 0.15 MGD (0012), 0.30 MGD (0013)

PERMIT NUMBER:

AL0056545

SULPHUR CREEK

RECEIVING WATERS:

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

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. DSN 0012: Municipal and Industrial Wastewater - 0.15 MGD

During the period beginning on the effective date of this permit and lasting through the completion of the facility expansion to 0.30 MGD, 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	Quantity	or Loading	Units	Q	uality or Concentrati	on	Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	****	mg/l	2X Weekly	Grab	Not Seasonal
pH (00400) Effluent Gross Value	****	*****	*****	6.0 Minimum Daily	****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	37.5 Monthly Average	56.2 Weekly Average	lbs/day	*****	30.0 Monthiy Average	45.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	12.5 Monthly Average	18.7 Weekly Average	lbs/day	****	10.0 Monthly Average	15.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Phosphorus, Total (As P) (00665) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	*****	Daily	Continuous	Not Seasonal

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

 (2) S = Summer (April – October) W = Winter (November - March) ECS = E. coli Summer (May - October) ECW = E. coli Winter (November - April)

DSN 0012 (Continued): Municipal and Industrial Wastewater - 0.15 MGD

During the period beginning on the effective date of this permit and lasting through the completion of the facility expansion to 0.30 MGD, 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	Quantity or Loading		Units	Q	Quality or Concentration			Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Chlorine, Total Residual (50060) See notes (3) Effluent Gross Value	*****	*****	*****	****	0.078 Monthly Average	0.135 Maximum Daily	mg/l	2X Weekly	Grab	Not Seasonal
E. Coli (51040) Effluent Gross Value	****	****	*****	****	548 Monthly Average	2507 Maximum Daily	col/100mL	2X Weekly	Grab	ECW
E. Coli (51040) Effluent Gross Value	****	*****	****	****	126 Monthly Average	298 Maximum Daily	col/100mL	2X Weekly	Grab	ECS
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	31.2 Monthly Average	46.9 Weekly Average	lbs/day	****	25.0 Monthly Average	37.5 Weekly Average	mg/i	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	ibs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvi (80091) Percent Removal	****	*****	****	85.0 Monthly Average Minimum	****	*****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

- (2) S = Summer (April October) W = Winter (November - March) ECS = E. coli Summer (May - October) ECW = E. coli Winter (November - April)
- (3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "*9" on the monthly DMR.

2. DSN 0013: Municipal and Industrial Wastewater - 0.30 MGD

During the period beginning on the completion of the facility expansion to 0.30 MGD and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0013, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter Quantity of		or Loading	Units	Units Quality or Concentration		Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)	
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	****	****	*****	6.0 Minimum Daily	*****	*****	mg/l	2X Weekly	Grab	Not Seasonal
pH (00400) Effluent Gross Value	****	****	*****	6.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	75 Monthly Average	112 Weekly Average	lbs/day	*****	30.0 Monthly Average	45.0 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/t	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	24.2 Monthly Average	36.4 Weekly Average	lbs/day	****	9.7 Monthly Average	14.5 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/i	Monthly	24-Hr Composite	S
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Phosphorus, Total (As P) (00665) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	S
Bis (2-Ethylhexyl) Phthalate (39100) Effluent Gross Value	****	****	*****	*****	32.7 Monthly Average	****	ug/l	Monthly	Grab	Not Seasonal

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (April – October)
 W = Winter (November - March)
 ECS = E. coli Summer (May - October)
 ECW = E. coli Winter (November - April)

DSN 0013 (Continued): Municipal and Industrial Wastewater - 0.30 MGD

During the period beginning on the completion of the facility expansion to 0.30 MGD and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0013, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)	
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	*****	****	****	Daily	Continuous	Not Seasonal
Chlorine, Total Residual (50060) See notes (3, 4) Effluent Gross Value	****	*****	****	****	0.045 Monthly Average	0.077 Maximum Daily	mg/i	2X Weekly	Grab	Not Seasonal
E. Coli (51040) Effluent Gross Value	*****	****	*****	*****	548 Monthly Average	2507 Maximum Daily	col/100mL	2X Weekly	Grab	ECW
E. Coli (51040) Effluent Gross Value	****	*****	*****	*****	126 Monthly Average	298 Maximum Daily	col/100mL	2X Weekly	Grab	ECS
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	62.5 Monthly Average	93.8 Weekly Average	lbs/day	****	25.0 Monthly Average	37.5 Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Weekly	24-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal	****	****	****	85.0 Monthly Average Minimum	****	*****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	****	*****	*****	85.0 Monthly Average Minimum	*****	****	%	Monthly	Calculated	Not Seasonal

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

- (2) S = Summer (April October)
 W = Winter (November March)
 ECS = E. coli Summer (May October)
 ECW = E. coli Winter (November April)
- (3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "*9" on the monthly DMR.
- (4) A measurement of TRC below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as "*B" on the monthly DMR.

3. DSN 001T: Toxicity

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

Parameter	Quantity	or Loading	Units	(Quality or Concentra	ition	Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Toxicity, Ceriodaphnia Chronic (61426) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	*****	*****	*****	*****	See Permit Requirements	24-Hr Composite	Mar, Jun, Sep, D e c
Toxicity, Pimephales Chronic (61428) Effluent Gross Value	*****	0 Single Sample	pass=0;faii=1	*****	*****	*****	*****	See Permit Requirements	24-Hr Composite	Mar, Jun, Sep, Dec

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (April – October)
 W = Winter (November - March)
 ECS = E. coli Summer (May - October)
 ECW = E. coli Winter (November - April)

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" or "*B" 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" or "*B" 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) 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 first complete calendar quarter 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. electronically.
 - (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic 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 Department's electronic 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 Department's electronic system resuming operation, the permittee shall enter the data into the Department's electronic system, unless an alternate timeframe is approved by the Department. A comment should be included on the electronic 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.
- (3) 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.

- (4) 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.
- (5) 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.
- (6) 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 Office of Water Services, Water 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 Office of Water Services, Water Division 1400 Coliseum Boulevard Montgomery, Alabama 36110-2400

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

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

Certified and Registered Mail shall be addressed to:

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

g. If this permit is a reissuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b. above.

2. Noncompliance Notifications and Reports

- a. The Permittee shall notify the Department if, for any reason, the Permittee's discharge:
 - (1) Does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I.A. of this permit which is denoted by an "(X)";
 - (2) Potentially threatens human health or welfare;

- (3) Threatens fish or aquatic life;
- (4) Causes an in-stream water quality criterion to be exceeded;
- (5) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
- (6) Contains a quantity of a hazardous substance that may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (7) Exceeds any discharge limitation for an effluent parameter listed in Part I.A. as a result of an unanticipated bypass or upset; or
- (8) Is an unpermitted direct or indirect discharge of a pollutant to a water of the state. (Note that unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision.)

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

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

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

The Department is utilizing an electronic system for notification and submittal of SSO reports. Except as noted e. below, the Permittee must submit all SSO reports electronically in the Department's electronic system. If requested, waivers from utilization of the electronic system shall be submitted in accordance with ADEM Admin. Code 335-6-1-.04(6). The Department's electronic reporting system shall be utilized unless a written waiver has been granted. A waiver is not effective until receipt of written approval from the Department. Utilization of verbal notifications and hard copy SSO report submittals is allowed only if approved in writing by the Department. The Permittee shall include in the SSO reports the information requested by ADEM Form 415. In addition, the Permittee shall include the latitude and longitude of the SSO in the report except when the SSO is a result of an extreme weather event (e.g., hurricane). To participate in the electronic system for SSO reports, an account may be created at https://aepacs.adem.alabama.gov/nviro/ncore/external/home. If the electronic system is down (i.e., electronic submittal of SSO data cannot be completed due to technical problems originating with the Department's system), the Permittee is not relieved of its obligation to notify the Department or submit SSO reports to the Department by the required submittal date, and the Permittee shall submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include verbal reports, reports submitted via the SSO hotline, or reports submitted via fax, e-mail, mail, or hand-delivery such that they are received by the required reporting date. Within five calendar days of the electronic system resuming operation, the Permittee shall enter the data into the electronic system, unless an alternate timeframe is approved by the Department. For any alternate notification, records of the date, time, notification method, and person submitting the notification should be maintained by the Permittee. If a Permittee is allowed to submit SSO reports via an alternate method, the SSO report must be in a format approved by the Department and must be legible.

- The Permittee shall maintain a record of all known wastewater discharge points that are not authorized as permitted outfalls, including but not limited to SSOs. The Permittee shall include this record in its **Municipal Water Pollution Prevention (MWPP) Annual Reports**, which shall be submitted to the Department each year by May 31st for the prior calendar year period beginning January 1st and ending December 31st. The MWPP Annual Reports shall contain a list of all known wastewater discharge points that are not authorized as permitted outfalls and any discharges that occur prior to the headworks of the wastewater treatment plant covered by this permit. The Permittee shall also provide in the MWPP Annual Reports a list of any discharges reported during the applicable time period in accordance with Provision I.C.2.a. The Permittee shall include in its MWPP Annual Reports the following information for each known unpermitted discharge that occurred:
 - (1) The cause of the discharge;

f.

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

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

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.

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.

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.

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

- 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 Best Management Practices (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

- a. 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, 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 <u>Code of Alabama</u> 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, significant change in the method of operation of the permittee's treatment works, or other actions that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant or could result in an additional discharge point. This condition applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.

3. Transfer of Permit

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

be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership, or control, he may decide not to modify the existing permit and require the submission of a new permit application.

4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
 - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
 - (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
 - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
 - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
 - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
 - (8) To agree with a granted variance under 30l(c), 30l(g), 30l(h), 30l(k), or 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; or

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

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

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

F. COMPLIANCE WITH WATER QUALITY STANDARDS

- 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

- 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". <u>Code of Alabama</u> 1975, Section 22-22-1(b)(9).
- 15. Discharge Monitoring Report (DMR) means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
- 16. DO means dissolved oxygen.
- 17. 8HC means 8-hour composite sample, including any of the following:
 - a. The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 1 hour over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
 - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
- 18. EPA means the United States Environmental Protection Agency.
- 19. FC means the pollutant parameter fecal coliform.
- 20. Flow means the total volume of discharge in a 24-hour period.
- 21. FWPCA means the Federal Water Pollution Control Act.
- 22. Geometric Mean means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).

- 23. Grab Sample means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
- 24. **Indirect Discharger** means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
- 25. Industrial User means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
- 26. MGD means million gallons per day.
- 27. Monthly Average means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.
- 28. New Discharger means a person, owning or operating any building, structure, facility, or installation:
 - a) From which there is or may be a discharge of pollutants;
 - b) That did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and
 - c) Which has never received a final effective NPDES permit for dischargers at that site.
- 29. NH3-N means the pollutant parameter ammonia, measured as nitrogen.
- 30. Notifiable sanitary sewer overflow means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:
 - a) Reaches a surface water of the State; or
 - b) May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.
- 31. **Permit application -** means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
- 32. Point source means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
- 33. **Pollutant** includes for purposes of this permit, but is not limited to, those pollutants specified in <u>Code of Alabama</u> 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 (POTW)** means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
- 36. Receiving Stream means the "waters" receiving a "discharge" from a "point source".
- 37. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- 38. Significant Source means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
- 39. TKN means the pollutant parameter Total Kjeldahl Nitrogen.
- 40. TON means the pollutant parameter Total Organic Nitrogen.
- 41. TRC means Total Residual Chlorine.

- 42. TSS means the pollutant parameter Total Suspended Solids.
- 43. 24HC means 24-hour composite sample, including any of the following:
 - a) The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b) A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected;
 - c) 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." <u>Code of Alabama</u> 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 – OUTFALL 001

1. Chronic Toxicity Test

- a. The permittee shall perform short-term chronic toxicity tests on the wastewater at Outfall 001.
- b. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which for 0.15 MGD is **15 percent** effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year low flow period.
- c. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which for 0.30 MGD is **25 percent** effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year low flow period.
- d. 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 until the completion of the facility expansion to 0.30 MGD in the month of SEPTEMBER. Should results from the Annual Toxicity test indicate that Outfall 0012 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 MARCH, JUNE, SEPTEMBER, and DECEMBER. Prior to the facility expansion to 0.30 MGD, the Permittee shall enter *9 for the months toxicity monitoring is not applicable.
- e. After completion of the facility expansion to 0.30 MGD, toxicity tests shall be conducted during the months of MARCH, JUNE, SEPTEMBER, and DECEMBER. Should results from the Toxicity test indicate that Outfall 0013 exhibits chronic toxicity, then the Permittee must conduct the follow-up testing described in Part IV.B.4.a. In addition, should the results of four consecutive testing periods after the facility expansion to 0.30 MGD indicate that Outfall 0013 does not exhibit chronic toxicity, the Permittee may request that testing be reduced to annually in the month of SEPTEMBER. If monitoring is not applicable during the monitoring period, enter *9 on the toxicity DMR.

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. 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)
 - (i) Name of firm
 - (ii) Telephone number
 - (iii) 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
 - (2) Sampling point
 - (3) Sample collection dates and times (to include composite sample start and finish times)
 - (4) Sample collection method
 - (5) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (6) Lapsed time from sample collection to delivery
 - (7) Lapsed time from sample collection to test initiation
 - (8) Sample temperature when received at the laboratory
 - (9) Dilution Water
 - (10) Source
 - (11) Collection/preparation date(s) and time(s)
 - (12) Pretreatment (if applicable)

(13) 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. <u>Results</u>
 - (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

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

C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS

1. If chlorine is not utilized for disinfection purposes, TRC monitoring under Part I of this Permit is not required. If TRC monitoring is not required (conditional monitoring), "*9" should be reported on the DMR forms.

- 2. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If chlorine is not detected prior to actual discharge to the receiving stream using one of these methods (i.e., the analytical result is less than the detection level), the Permittee shall report on the DMR form "*B" 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. SANITARY SEWER OVERFLOW RESPONSE PLAN

1. SSO Response Plan

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

- a. <u>General Information</u>
 - (1) Approximate population of City/Town, if applicable
 - (2) Approximate number of customers served by the Permittee
 - (3) Identification of any subbasins designated by the Permittee, if applicable
 - (4) Identification of estimated linear feet of sanitary sewers
 - (5) Number of Pump/Lift Stations in the collection system
- b. Responsibility Information
 - (1) The title(s) and contact information of key position(s) who will coordinate the SSO response, including information for a backup coordinator in the event that the primary SSO coordinator is unavailable. The SSO coordinator is the person responsible for assessing the SSO and initiating a series of response actions based on the type, severity, and destination of the SSO, except for routine SSOs for which the coordinator may pre-approve written procedures. Routine SSOs are those for which the corrective action procedures are generally consistent.
 - (2) The title(s), and contact information of key position(s) who will respond to SSOs, including information for backup responder(s) in the event the primary responder(s) are unavailable (i.e., position(s) who provide notification to the Department, the public, the county health department, and other affected entities such as public water systems; position(s) responsible for organizing crews for response; position(s) responsible for addressing public inquiries)
- c. SSO and Surface Water Assessment
 - (1) Identification of locations within the collection system at which an SSO is likely to occur (e.g., based upon historical SSOs, lift stations where electricity may be lost, etc.)
 - (2) A map of the general collection system area, including identification of surface waterbodies and the location(s) of public drinking water source(s). Mapping of all collection system piping, pump stations, etc. is not required; however, if this information is already available, it should be included.
 - (3) Identification of surface waterbodies within the collection system area which are classified as Swimming according to ADEM Admin. Code chap. 335-6-11. References available to assist in this requirement include the following: <u>http://adem.alabama.gov/alEnviroRegLaws/files/Division6Vol1.pdf</u> and <u>http://adem.alabama.gov/wqmap</u>.

- (4) Identification of surface waterbodies within the collection system area which are not classified as Swimming as indicated in paragraph c above, but are known locally as areas where swimming occurs or as areas that are heavily recreated
- d. Public Reporting of SSOs

(1) Contact information for the public to report an SSO to the Permittee, during both normal and outside of normal business hours (e.g., telephone number, website, email address, etc.)

(2) Information requested from the person reporting an SSO to assist the Permittee in identifying the SSO (e.g., date, time, location, contact information)

(3) Procedures for communication of the SSO report to the appropriate positions for follow-up investigation and response, if necessary

- e. Procedures to immediately notify the Department, the county health department, and other affected entities (such as public water systems) upon becoming aware of notifiable SSOs
- f. Public Notification Methods for SSOs
 - (1) A listing of methods that are feasible, as determined by the Permittee, for public notifications (e.g., flyers distributed to nearby residents; signs posted at the location of the SSO, where the SSO enters a water of the state, and/or at a central public location; signs posted at fishing piers, boat launches, parks, swimming waterbodies, etc.; website and/or social media notifications; local print or radio and broadcast media notifications; "opt in" email, text message, or automated phone message notifications)
 - (i) If signage is a feasible method for public notification, procedures for use and removal of signage (e.g., availability and maintenance of signs, appropriate duration of postings)
 - (2) Minimum information to be included in public notifications (e.g., identification that an SSO has occurred, date, duration if known, estimated volume if known, location of the SSO by street address or other appropriate method, initial destination of the SSO)
 - (3) Procedures developed by the Permittee for determining the appropriate public notification method(s) based upon the potential for public exposure to health risks associated with the SSO
- g. Standard Procedures shall be developed by the Permittee and shall include, at a minimum
 - (1) General SSO Response Procedures (e.g., procedures for dispatching staff to assess/correct an SSO; procedures for routine SSO corrective actions such as those for sewer blockages, overflowing manholes, line breakages, pump station power failure, etc.; procedures for disinfection of affected area, if applicable);
 - (2) Procedures for collection and proper disposal of the SSO, if feasible.
 - (3) General procedures for coordinating instream water quality monitoring, including, but not limited to, procedures for mobilizing staff, collecting samples, and typical test methods should the Department or the Permittee determine monitoring is appropriate following an SSO. Identification of a contractor who will collect and analyze the sample(s) may be listed in lieu of the procedures.
 - (4) References to other documents (such as Standard Operating Procedures for SSO Responses) may be acceptable for this section; however, the referenced document shall be identified and shall be reviewed at a frequency of at least that required by the Administrative Procedures Section.
- h. Date of the SSO Response Plan, dates of all modifications and/or reviews, the title and signature of the reviewer(s) for each date and the signature of the responsible official or the appropriate designee.

2. SSO Response Plan Implementation

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

3. Department Review of the SSO Response Plan

- a. When requested by the Director or his designee, the Permittee shall make the SSO Response Plan available for review by the Department.
- b. Upon review, the Director or his designee may notify the Permittee that the SSO Response Plan is deficient and require modification of the Plan.

c. Within thirty days of receipt of notification, or an alternate timeframe as approved by the Department, the Permittee shall modify any SSO Response Plan deficiency identified by the Director or his designee and shall certify to the Department that the modification has been made.

4. SSO Response Plan Administrative Procedures

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

F. 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.

NPDES PERMIT RATIONALE

NPDES Permit No:	AL0056545	Date: February 13, 2023
Permit Applicant:	Limestone County Water and Sewer Au Post Office Box 110 Athens, AL 35612	thority
Location:	Elkmont Rural Village WWTP 18458 Rural Village Back Way Elkmont, AL 35620	
Draft Permit is:	Initial Issuance: Reissuance due to expiration: X Modification of existing permit: Revocation and Reissuance:	
Basis for Limitations:	Water Quality Model: CBOD ₅ , NH ₃ N, I Reissuance with no modification: 0012: Instream calculation at 7Q10: 0012: ~1 0013: ~2 Toxicity based: TRC Secondary Treatment Levels: TSS, TSS Other (described below): pH, E. Coli, E	DO pH, DO, TSS, NH3N, CBOD5, E. Coli 5% 25% Percent Removal, CBOD5 Percent Removal Bis (2-Ethylhexyl) Phthalate (0013)
Design Flow in Million G	allons per Day: 0.15 MGD, 0).30 MGD

Design Flow in Million Gallons per Day:

No

Description of Discharge:

Major:

Feature ID	Description	Receiving Water	WBC	303(d)	TMDL
001	Municipal and Industrial	Sulphur Creek	Fish and Wildlife	No	No
	Wastewater		(F&W)		

Discussion: This permit is a reissuance due to expiration.

At the request of the Permittee, this permit will be tiered for Design Flows of 0.15 MGD and 0.30 MGD. The Permittee will be expanding the 0.15 MGD mechanical plant to a 0.30 MGD mechanical plant. The limitations for the 0.15 MGD facility will be applicable from the issuance date of this permit until after construction for the 0.30 MGD facility expansion is completed. The limitations for the 0.30 MGD facility will be applicable starting once construction for the 0.30 MGD facility expansion is completed through the permit expiration.

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

The receiving stream is Sulphur Creek, a Tier I waterbody. The stream is not on the current 303(d) list for impaired waterbodies. There are no approved TMDLs for Sulphur Creek.

Outfall 0012 - 0.15 MGD

The limits for Five Day Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Ammonia as Nitrogen (NH₃-N), and Dissolved Oxygen (DO) are based on the Waste Load Allocation (WLA) model that was completed by ADEM's Water Quality Branch on January 20, 2023. The monthly average limit for CBOD₅ is 25.0 mg/L. The monthly average limit for NH₃-N is 10.0 mg/L. The limit for daily minimum DO is 6.0 mg/L.

The limits for Total Suspended Solids (TSS), TSS percent removal, and CBOD₅ percent removal are 30.0 mg/L, 85.0%, and 85.0%, respectively. These limits are based on requirements of 40 CFR part 133.102 regarding Secondary Treatment.

The imposed E. coli limits were determined based on the water-use classification of the receiving stream. Since Sulphur Creek is classified as Fish & Wildlife, the limits for May through October are 126 col/100ml (monthly average) and 298 col/100ml (daily maximum), while the limits for November through April are 548 col/100ml (monthly average) and 2507 col/100ml (daily maximum).

The pH limits were developed in accordance with the Water-Use designation of the receiving stream and to be consistent with the Department's permitting approach and procedures. The minimum pH limit of 6.0 S.U. and a maximum limit of 9.0 S.U. are imposed.

The Total Residual Chlorine (TRC) limits of 0.078 mg/L (monthly average) and 0.135 mg/L (maximum daily) are based on EPA's recommended water quality value and on the current Toxicity Rationale, which considers the available dilution and should be protective of acute and chronic criteria in the receiving stream. Monitoring for TRC is only applicable if chlorine is utilized for disinfection purposes. That is, if chlorine disinfection is not utilized, monitoring would not be applicable during the monitoring period, and "*9" should be entered on the monthly DMR.

This permit imposes monitoring during the summer season (April-October) for the following nutrient-related parameters: Total Kjeldahl Nitrogen (TKN), Nitrite plus Nitrate as Nitrogen (NO2+NO3-N), and Total Phosphorus (TP). 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.

Chronic toxicity testing with two species (Ceriodaphnia and Pimephales) is being imposed in this permit. Toxicity testing is imposed for both survival and life-cycle impairment (i.e. growth and reproduction). Chronic testing at the IWC of 15 percent is required during the month of September.

Since this facility receives industrial wastewater, the Department completed a numeric reasonable potential analysis (RPA) of the discharge based on laboratory data provided in the Permittee's application. Background data appropriate for use in the RPA for Sulphur Creek was not available for development of the analysis. The RPA indicates whether pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the RPA, it does not appear that there is reasonable potential to cause in-stream water quality criteria exceedances at this time.

Monitoring will be conducted twice per week for most parameters. Percent removal for CBOD₅ and TSS will be calculated once per month. Monitoring for nutrient-related parameters will be once per month during the summer season. Flow will be monitored continuously, 7 days per week.

<u>Outfall 0013 - 0.30 MGD</u>

The limits for Five Day Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Ammonia as Nitrogen (NH₃-N), and Dissolved Oxygen (DO) are based on the Waste Load Allocation (WLA) model that was completed by ADEM's Water Quality Branch on January 20, 2023. The monthly average limit for CBOD₅ is 25.0 mg/L. The monthly average limit for NH₃-N is 9.7 mg/L. The limit for daily minimum DO is 6.0 mg/L.
The limits for Total Suspended Solids (TSS), TSS percent removal, and CBOD₅ percent removal are 30.0 mg/L, 85.0%, and 85.0%, respectively. These limits are based on requirements of 40 CFR part 133.102 regarding Secondary Treatment.

The imposed E. coli limits were determined based on the water-use classification of the receiving stream. Since Sulphur Creek is classified as Fish & Wildlife, the limits for May through October are 126 col/100ml (monthly average) and 298 col/100ml (daily maximum), while the limits for November through April are 548 col/100ml (monthly average) and 2507 col/100ml (daily maximum).

The pH limits were developed in accordance with the Water-Use designation of the receiving stream and to be consistent with the Department's permitting approach and procedures. The minimum pH limit of 6.0 S.U. and a maximum limit of 9.0 S.U. are imposed.

The Total Residual Chlorine (TRC) limits of 0.045 mg/L (monthly average) and 0.077 mg/L (maximum daily) are based on EPA's recommended water quality value and on the current Toxicity Rationale, which considers the available dilution and should be protective of acute and chronic criteria in the receiving stream. A measurement of TRC below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as "*B" on the monthly DMR. Monitoring for TRC is only applicable if chlorine is utilized for disinfection purposes. If chlorine disinfection is not utilized, monitoring would not be applicable during the monitoring period, and "*9" should be entered on the monthly DMR.

This permit imposes monitoring during the summer season (April-October) for the following nutrient-related parameters: Total Kjeldahl Nitrogen (TKN), Nitrite plus Nitrate as Nitrogen (NO2+NO3-N), and Total Phosphorus (TP). 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.

Chronic toxicity testing with two species (Ceriodaphnia and Pimephales) is being imposed in this permit. Toxicity testing is imposed for both survival and life-cycle impairment (i.e. growth and reproduction). Chronic testing at the IWC of 25 percent is required during the months of March, June, September, and December.

Since this facility receives industrial wastewater, the Department completed a numeric reasonable potential analysis (RPA) of the discharge based on laboratory data provided in the Permittee's application. Background data appropriate for use in the RPA for Sulphur Creek was not available for development of the analysis. The RPA indicates whether pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the RPA, it appears that there is reasonable potential to cause in-stream water quality criteria exceedances for Bis (2-Ethylhexyl) Phthalate. Bis (2-Ethylhexyl) Phthalate will have a monthly average limitation of 32.7 ug/L.

A narrative RPA was conducted regarding the effluent contributions expected from the treatment facility with design capacity of 0.30 MGD. The Department has determined that, based on a review of the facility's current levels of nutrients in the discharge and based on current stream conditions, it is appropriate to include monthly monitoring for nutrients during the summer season. Nutrient monitoring is imposed in the reissuance so that sufficient information will be available regarding nutrient contributions for the purpose of TMDL development. The Department is in the process of gathering nutrient data for the purpose of developing a TMDL for the Wheeler Lake (Elk River) watershed that includes the discharge.

Monitoring will be conducted twice per week for most parameters. Percent removal for CBOD₅ and TSS will be calculated once per month. Monitoring for nutrient-related parameters will be once per month during the summer season. Bis (2-Ethylhexyl) Phthalate will be monitored once per month. Flow will be monitored continuously, 7 days per week.

Prepared by: <u>Sandra Lee</u>

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m:	S	Sandy Lee		In Bra	anch/s	Section	N	lunicipal	
Date Subm	itted 11/8/20	22	Date Re	quired	12/8/2	2022	FUN	D Code	605
Date Permit	application receiv	ed by NP	DES pro	ogram	10/3/	2022			
Receiving Waterbody			Sulphur	Creek		····			
Previous Stream Name									
Facility Name	Elkmon	it Rural Vil	lage WV	WIP		(Name o	f Disch	arger-WQ	will use to
	-		Outfall	I atitude		Previous	Discha	(decimal de	arees)
River Basin	lennessee			onaitude		RE 99923	1	(decimal de	grees)
*County	Limestone			onginuq	-	0.00020	-		g. cco,
Permit Number	AL005	6545		Permi	Type		Perr	nit Reissua	ince
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Do oth	er discharges e	xist that r	may imp	pact the n	nodel?	□ Y	es	No No	
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	Waste Load Allocation Summa						mary	F	Page 2	
			C	onventio	nal Paramete	rs		Other Pa	rameters	
Annu	al Effi	uent	Qw	MGD	Qw	MGD	Qw	MGD	Qw	MGD
1	Limits		Season		Season		Season		Season	
Qw	0.15	MGD	From		From		From		From	
BOD5	25	roy/il.	Through		Through		Through		Through	
NH3-N	10	my/L	CBOD5		CBOD5		ТР		TP	
TKN			NH3-N		NH3-N		TN		TN	
D.O.	6	mg/L	TKN		TKN		TSS		TSS	
			D.O.		D.O.					

"Monitor Only" Parameters for Effluent:	Parameter	Frequency	Parameter	Frequency
	ТР	Monthly(Apr-Oct)		
	TKN	Monthly(Apr-Oct)		
	NO2+NO3-N	Monthly(Apr-Oct)		

Parameter	Summe	er	Wir	iter
CBODu	2	mg/l	2	mg/l
NH3-N	0.11	mg/i	0.11	mg/l
emperature	28	°C	18	°C
oH	7	su	7	su

	Hydrology at Dis	charge Lo	cation	
Drainage Area	Drainage Area	6.76	sq mi	Method Used to Calculate
Qualifier	Stream 7Q10	1.42	cfs	Bingham Equation
	Stream 1Q10	1.07	cfs	75%of 7Q10
	Stream 7Q2	3.21	cfs	Bingham Equation
	Annual Average	11.39	cfs	ADEM Estimate w/USGS Gage Data

Comments and/or Notations Limits above are for the existing 0.15 MGD discharge to Sulphur Creek. The Elkmont Rural Village WWTP also requested an additonal WLA for the proposed expanded flowrate of 0.3 MGD at the same outfall location.

NH3N Limit not toxicity based.



	Co	onventional Parameter	S	Other Parameters			
Annual Effluent	Qw	MGD Qw	MGD	Qw	MGD	Qw	MGD
Limits	Season	Season		Season		Season	
Qw 0.3 MGD	From	From		From		From	
BOD5 25 mg/L	Through	Through		Through		Through	
IH3-N 9.7 mg/L	CBOD5	CBOD5	-	TP		ТР	
TKN	NH3-N	NH3-N		TN		TN	
D.O. 6 mg/L	TKN	TKN		TSS		TSS	
-	D.O.	D.O.					

	TP	Monthly(Apr-Oct)	
	TKN	Monthly(Apr-Oct)	
	NO2+NO3-N	Monthly(Apr-Oct)	
····			

Parameter	Summer		Win	ter
CBODu	2	mg/l	2	mg/l
NH3-N	0.11	mg/l	0.11	mg/i
mperature	28	°C	18	°C
рH	7	su	7	su

	Hydrology at Dis	charge Lo	cation	
Drainage Area	Drainage Area	6.76	sq mi	Method Used to Calculate
Qualifier	Stream 7Q10	1.42	cfs	Bingham Equation
LAGU	Stream 1Q10	1.07	cfs	75%of 7Q10
	Stream 7Q2	3.21	cfs	Bingham Equation
	Annual Average	11.39	cfs	ADEM Estimate w/USGS Gage Data

Comments and/or Notations

NH3N Limit is toxicity based.

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Elkmont Rural Village WWTP	
NPDES Permit Number:	AL0056545	
Receiving Stream:	Sulphur Creek	
Facility Design Flow (Q _w):	0.150 MGD	
Receiving Stream 7Q ₁₀ :	1.420 cfs	
Receiving Stream 1Q ₁₀ :	1.070 cfs	
Winter Headwater Flow (WHF):	3.21 cfs	
Summer Temperature for CCC:	28 deg. Celsius	
Winter Temperature for CCC:	18 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 Ration (SDR) is calculated using the 7Q10 for all stream classifications.

Stream Dilution Pation (SDP) = $-$	Qw	=	14 05%
Stream Dilution Ration (SDR)	7Q10 + Qw		14.0370

AMMONIA TOXICITY LIMITATIONS

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

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

Limiting Dilution =	Qw 7Q ₁₀₊ Qw	
=	14.05%	Effluent-Dominated, CCC Applies
Criterion Maximum Concentration (CMC): Criterion Continuous Concentration (CCC):	$CMC=0.411/(1+10^{(7.204-pH)}) + 58.4/(1+CCC=[0.0577/(1+10^{(7.688-pH)}) + 2.487/(1+10^{(7.688-pH)}) + 2.487/(1+1$	$(10^{(pH-7.204)})$ $(1+10^{(pH-7.688)})] * Min[2.85,1.45*10^{(0.028*(25-T))}]$
	<u>CMC</u>	CCC
Allowable Summer Instream NH ₃ -N:	36.09 mg/l	2.48 mg/l
Allowable Winter Instream NH ₃ -N:	36.09 mg/l	4.72 mg/l
Summer NH ₃ -N Toxicity Limit =	[(Allowable Instream NH ₃ -N) *	$(7Q_{10} + Q_w)] - [(Headwater NH_3 - N) * (7Q_{10})]$
=	17.0 mg/l NH3-N at 7Q10	Q _w
Winter NH . N Tovicity Limit =	[(Allowable Instream NH ₃ -N) * ($[WHF + Q_w)] - [(Headwater NH_3-N) * (WHF)]$
white Milia I Vilagenty Linit –		Qw
=	N./A.	
The ammonia limits established in the permit	will be the lesser of the DO-based amm	onia limit (from the wasteload allocation

The model) or the toxicity limits calculated above.

	DO-based NH3-N limit	Toxicity-based NH3-N limit
Summer	10.00 mg/l NH3-N	17.00 mg/l NH3-N
Winter	N./A.	N./A.

Summer: The DO based limit of 10.00 mg/l NH3-N applies. Winter limits are not applicable.

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

The following factors trigger toxicity testing requirements:

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

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

Chronic toxicity testing is required

Instrum Weste Concentration (IWC) -	Qw	_	14.05%	Note: This number will be rounded
Instream waste Concentration (TwC) -	7Q10 + Qw		14.03 /0	up for toxicity testing purposes.

DISINFECTION REQUIREMENTS

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

See the attached Disinfection Guidance for applicable stream standards.

(Non-coastal limits apply) Applicable Stream Classification: Fish & Wildlife Disinfection Type: Chlorination

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

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

MAXIMUM ALLOWABLE CHLORINATION LIMITS

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

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

Maximum allowable TRC in effluent:	0.078 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	0.135 mg/l (acute)	(0.019)/(SDR)

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

Prepared By:

Sandra Lee

Date: 3/8/2023

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Elkmont Rural Village WWTP	
NPDES Permit Number:	AL0056545	
Receiving Stream:	Sulphur Creek	
Facility Design Flow (Q _w):	0.300 MGD	
Receiving Stream 7Q ₁₀ :	1.420 cfs	
Receiving Stream 1Q ₁₀ :	1.070 cfs	
Winter Headwater Flow (WHF):	3.21 cfs	
Summer Temperature for CCC:	28 deg. Celsius	
Winter Temperature for CCC:	18 deg. Celsius	
Headwater Background NH ₃ -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 Ration (SDR) is calculated using the 7Q10 for all stream classifications.

Stream Dilution Potion (SDP) = $-$	Qw	=	24 64%
Stream Dirution Ration (SDR) = -	7Q10 + Qw		24.04 /0

AMMONIA TOXICITY LIMITATIONS

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

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

Limiting Dilution =	$\frac{Q_{\mathbf{w}}}{7Q_{10+}Q_{\mathbf{w}}}$	
=	24.64%	Effluent-Dominated, CCC Applies
Criterion Maximum Concentration (CMC): Criterion Continuous Concentration (CCC):	CMC=0.411/(1+10 ^(7.204-pH)) + 58.4/(CCC=[0.0577/(1+10 ^(7.688-pH)) + 2.48	$1+10^{(pH-7.204)})$ 7/(1+10 ^(pH-7.688))] * Min[2.85,1.45*10 ^{(0.028*(25-T))}]
	CMC	CCC
Allowable Summer Instream NH ₃ -N:	36.09 mg/ł	2.48 mg/l
Allowable Winter Instream NH ₃ -N:	36.09 mg/l	4.72 mg/l
Summer NHN Toyicity Limit =	[(Allowable Instream NH ₃ -N)	* $(7Q_{10} + Q_w)$] - [(Headwater NH ₃ -N) * $(7Q_{10})$]
Summer 1413-14 Toxicity Emili		Qw
=	9.72	
Winter NH N Toyicity Limit =	[(Allowable Instream NH ₃ -N)	* (WHF + Q _w)] - [(Headwater NH ₃ -N) * (WHF)]
white NII3-N Toxicity Ellint –		Qw
=	N./A.	

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

	DO-based NH3-N limit	Toxicity-based NH3-N limit
Summer	9.7 mg/l NH3-N	9.7 mg/l NH3-N
Winter	N./A.	N./A.

Summer: The toxicity based limit of 9.70 mg/l NH3-N applies. Winter limits are not applicable.

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

The following factors trigger toxicity testing requirements:

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

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

Chronic toxicity testing is required

Instruction Wasta Concentration (IWC) -	Qw	_	- Note: This number will 1	Note: This number will be rounded
Instream waste Concentration (IwC) –	7QI0 + Qw	-	24.04 70	up for toxicity testing purposes.

DISINFECTION REQUIREMENTS

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

See the attached Disinfection Guidance for applicable stream standards.

(Non-coastal limits apply) Applicable Stream Classification: Fish & Wildlife Disinfection Type: Chlorination Limit calculation method: Limits based on meeting stream standards at the point of discharge.

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

MAXIMUM ALLOWABLE CHLORINATION LIMITS

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

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

Maximum allowable TRC in effluent:	0.045 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	0.077 mg/l (acute)	(0.019)/(SDR)

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

Prepared By:

Sandra Lee

Date: 3/8/2023

Facility Name: Elkmont Rural Village WWTP

NPDES No.: AL0056545

6/13/2017

40 40 402	-02 .		Sectorand	Ballground	Rectment	Rachanner	Clinchange as	Discharge as	Coefficient	
ID Pollutant	Carcinogen 'Yes'	Туре	Horn upstream source (C ₄₂)	from upstream source (C _{e2})	Instream (Ca) Cally Max	Instream (C ₄) Mustily Ave	Applicant (C_) Max	Applicant IC-1 Ave	(Stream / Lake)	
1	1	-	Carly Man	Monthly Aum	- North	- Inu	Bee	Pin (go)	-	
2 Amenic*,**	YES	Pletais	0	0	0	0	0	0	0.574	
3 Berylum 4 Cadmium**		Metals Metals	0	0	0	0	0	0	0.236	
5 Chromium / Chromium III**		Pletale	0	0	0	a	0	0	0.210	
6 Chonesen / Chronesen VI** 7 Cesper**		Pletals	0	0	0	D D	5	0	0.388	
8 Lead**	_	Metals	0	0	0	0	0	0	0.206	
10 Nickel ⁴⁴		Hotale	0	0	a a	0	9.18	8.5	0.302	
11 Selenium 12 Shar	1	Metals	0	0	0	0	0	0	•	
13 Thelium		Hetals	0	0	Ó	0	0	0		
14 Zec** 15 Cvaside		Plotais Plotais	0	0	0	0	16.2	15.5	0.330	
16 Total Phenolic Compounds		Metals	0	0	đ	0	0	0		
17 Hardness (As CaCO3) 16 Acrolein		Motals VOC	0	0	0	0	130000	123000	:	
19 Acrylonitrile*	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	-	
24 Chiardane	YES	VOC	0	0	4	0	0	0		
25 Clorobergane 26 Chlorodibromo-Methane*	YES	VOC	0	0	0	0	0	0	:	
27 Chioroethane	1.55	VOC	0	0	0	0	0	ō		
28 2-Chicro-Ethylvinyl Ether 29 Chicro-Form*	YES	VOC	0	0	0	0	0	0	1	
30 4,4°-000	YES	VOC	0	0	0	0	0	ő		
11 4,4'-ODE	YES	VOC	0	0	0	0	0	0	1	
13 Dichlorobromo-Methane*	YES	VOC	0	0	0	0	o	ō		
15 1, 2-Dichloroethane"	YES	VOC	0	0	0	0	0	0	1	
36 Trans-1, 2-Dichloro-Ethylano	-	VOC	0	0	0		0	0	-	
38 1, 2-Dichleropropane	125	VOC	0	0	a		0	0		
35 1, 3-Dichiaro-Prozylene 50 Oteletete	VER	VOC	0	0	0	0	0	0		
41 Ethybenzene	165	VOC	0	0	0	0	0	0		
52 Methyl Brornide 53 Methyl Chioride		VOC	0	0	0		0	0	:	
11 Methylene Chloride*	YES	VOC	0	0	0		0	0		
15 J. J. Z. 2-Tetrachiero-Ethane* 46 Tetrachiero-Ethylena*	YES	VOC	0	0	0	0	0	0	1	
47 Toluene		VOC	0	0	a	0	0	0		
40 TributyRine (TBT)	YES	VOC	0	0	0	0	0	0	1	
SD 1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0	-	
52 Trichlorethylene*	YES	VOC	0	0	0	0	0	0	1	
53 Vinyi Chioride*	YES	VOC	0	0	0	0	0	0		
55 2-Chiorophenol		Adds	0	0	0	D	0	0		
55 2, 4-Dichiorophenol 57 2, 4-Dicretholphenol		Adds	0	0	0	0	0	0		
58 4, 6-Dinitro-O-Creaol		Adds	0	0	0	0	o	ő		
59 2, 4-Dintrophenol 50 4 6-Dintro-2-methylophenol	VES	Acids	0	0	0	0	0	0		
61 Diaxin (2,3,7,8-TCDD)	YES	Adds	ŭ	0	0	D	0	0		
52 2-Mitrophenol 53 4-Mitrophenol	-	Acida	0	0	0	D D	0	0		
4 Pentachiorophonol*	YES	Adds	0	0	0	0	0	0		
55 Phanol 55 2, 4, 6-Trichlerophenol*	YES	Acida	0	0	D	0	0	0	1.1	
57 Actruspithene		Danes	0	0	0	0	0	0		
65 Anthracene		Danes	0	0	D	0	0	0		
70 Benzidne	VEC	Bases Range	0	0	0	0	0	0		
72 Benzo(A)Pyrene*	YES	Bases	ő	o	Ū		0	0		
73 3, 4 Benzo Fluoranthene 24 Benzo (CHI) Pervieve		Bases	0	0	0	-	0	0		
75 Benzo(K)Ruovanthene		Eases	0	0	D		0	0		
75 Bis (2-Chloroethow) Methane 77 Bis (2-Chloroethyl)-Ether*	YES	Bases	0	0	0		0	0		
28 Bis (2-Chloruiso-Proper) Ether	-	Bases	0	0	- 0	•	0	0		
10 4-Bromophenyl Phenyl Ether	TES	Bases	0	0			25.8	8.6 0		
13 Butyl Bergyl Phthalate 12 3-Chierconstitthalana	1.1.1	Bases	0	0	0	:	0	0	-	
83 4-Chiorophenyl Phenyl Ether		Beses	0	0	0	0	0	0		
55 Di-N-Butyl Phthalate	YES	Deses Benes	0	0	0		0	0		
55 Di-N-Octyl Phthalate		Bases	0	0	D		0	0		
88 1, 2 Okhlorobenzene	TES	Bases	0	0	0		0	0		
89 1, 3-Dichlarobergene 90 1, 4-Dichlarobergene		Bases Rates	0	0	2	-	0	0	•	
91 3, 3-Dichlorobenzidine*	YES	Bases	0	0	0		0	0		
92 Derotyl Philipalate 93 Dirrechyl Philipalate	-	Bases.	0	0	D		0	0		
14 2, 4-Diskrotoloene*	YES	Saint	0	0	9	-	0	0		
96 1,2-Diphenylhydracine		Deses	0	0	D		0	0		
77 Endosullan (sipha)	YES	Bases Reven	0	0	0		0	0	-	
55 Endosellan sulfate	YES	Bases	0	0	8		0	0		
Condition	YES	Bases	0	0	0		0	0		
02 Pluoranthene	100	Beses	e	0	.0		0	0		
0 Pluonene 04 Heptochior	YES	Dates -	0	0	0		0	0		
15 Heptachior Epoxicle	YES	Bases	0	0	0		0	0		
6 Hexachiorobenzene* 17 Hexachiorobutzdiene*	YES	Baser	0	0	0	-	0	0		
8 Hexachiorocyclohexan (alpa)	YES	Bases	0	0	0	4	0	0		
 Hexachiorocyclohexan (beta) Hexachiorocyclohexan (gamma) 	YES	5mm	0	0	P	-	0	0	:	
1 HexachlorocycloPentadiene		Dates	0	0	1		0	0		
13 Indeno(1, 2, 3-CK)Pyrane*	YES	Dates .	0	å		-	0	0	:	
14 Isopharone		Eases	0	a		4	0	0		
15 Nophthalene 16 Nitrobenzerve		Bases Bases	6	0	0	-	0	0		
17 N-Nitrosodi N-Propylamine*	YES	Bases	0	0	ų –		0	0		
15 N-Nitrosodi-N-Methylamine* 19 N-Nitrosodi-N-Phenylamine*	YES	Deses	0	0	-	-	0	0		
20 PC8-1016	YES	Sases	0	0	2		0	0		
2 PC8-1232	YES	Bases	0	0		9	0	0		
2 PC8-1242	YES	Bases	0	0		0	0	0	-	
25 PC8-1254	YES	Bases	0	0	-	0	0	0		
25 PCB-1260	YES	Stota	0	0	4	0	0	0	•	
28 Pyrene		Date:	0	D D		a	0	0		
2011 2 4 Teichleanhannana		1 Manual	A							

0.15	Enter Q _e = wastewater discharge flow from facility (MGD)
0.23208435	Ω_{e} = wastewater discharge flow (cfs) (this value is caluclated from the MGD)
0	Enter flow from upstream discharge Qd2 = background stream flow in MGD above point of discharge
0	Qd2 = background stream flow from upstream source (cfs)
1.42	Enter 7Q10, Q _a = background stream flow in cfs above point of discharge
1.07	Enter or estimated, 1Q10, Q _s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
11.39	Enter Mean Annual Flow, Q _a = background stream flow in cfs above point of discharge
3.21	Enter 7Q2, Q _a = background stream flow in cfs above point of discharge (For LWF class streams)
Erear (m) Leff	Enter C _e = beckground in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q, +Qd2+Q,	Q, = resultant in-stream flow, after discharge
Calculated on other	C _r = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
100	Enter, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	Enter, Beckground 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

February 13, 2023

1.011030

cility Na	me: El	kmont	Rural	Village	WWTP
	_				

	Frest	water FAW classification.		-			Free	invelar Acute ((µg/l) Q, =1Q10	-			Fresh	weter Chronic ((µg/i) Q. = 7Q10	0	Human Hee Carolin Nor	ith Consumptio ogen Q _s = Ann -Carcinozen Q	n Fish only (ug uit Average . = 7018	0
	iD	Pollutant	RP7	Caroinogen yee	Beokground from upstream source (Cd2) Daily Max	Max Daily Discharge as reported by Applicant (Case)	Water Quality Criteris (C ₇)	Draft Permit Limit (C _{dmax})	20% of Dreft Permit Limit	RP?	Background from upstream source (Cd2) Monthly Ave	Avg Deity Discharge as reported by Applicant (C _{starg})	Water Guailty Criteria (C ₂)	Draft Perrisit. Limit (C _{deep})	20% of Draft Permit Limit	RP7	Water Quality Criteria (C ₁)	Draft Parenti Limit (C _{dang})	20% of Draft Permit Limit	RP7
	1	Antimony		YES	0	5.63	and and	3373 229	054.546	No	0	1.88		1860.226	372.045	No	3.03E-01	2.66E+03 1.52E+01	5 32E+02 3.03E+00	No No
	3	Beryium Cadmium			0	0	0.558	47.872	9.574	No	0	0	100	7.420	1.484	- No	1	1	1	-
	5	Chromium/ Chromium III Chromium/ Chromium VI			0	0	10748.458	15221.890 89.788	3044.378 17.953	No No	0	0	11000	2512.294 78.303	502.459 15.681	No No	:	1.1	:	-
	7	Copper			0	5	34 677	194.327 1758.889	38.885	No	0	1.67	12,217	164.307 58.964	32.881 17.393	No No	:		:	-
	9	Mercury			0	0.00073	2.45	13.465	2.683	No	0	0.000963	0.013	0.085	0.017	No No	4.24E-02 9.93E+02	3.02E-01 7.07E+03	6.04E-02 1.41E+03	Na No
	11	Selenium			0	0	20.00	112.208	22.442	No	0	0	200	35.592	7.118	No	2425 103	1.73E+04	3.46E+03	No
	13	Thallium			0	0		1003 207	208.441	- No	0	0	-	25.48 380	509 678	No	274E54	1.95E+00	3.89E-01	No
	15	Cyanide .			0	0	2100	123.429	24.688	No	0	0	520	37.018	7.403	No	A MEAD	6.64E+04	1.33E+04	No
	17	Hardness (As CaCO3)			0	130000	-		-	-	0	123000	-	-	-	-	-	3 085404	7 775 400	-
	18	Acrylonitrile		YES	0	0	-			-	0	0				-	1ALE-IN	7.21E+00	1.44E+00	No
	20	Benzene		YES	0	0	-	-	3.300	-	0	0	1	-		-	1.5mmarch	7.75€+02	1.55E+02	No
	22	Bromoform Carbon Tetrachlonde		YES	0	0		1		-	0	0				-	0.57E-01	4.79E+01	9.59E+02	No
	24	Chlordane Clorobenzene		YES	0	0	240	13.465	2.693	No	0	0	00040	0.031	0.008	No -	B.GED-UT	2.3/E-02 6.45E+03	4.74E-03 1.29E+03	No
	26 27	Chlorodibromo-Methane Chloroethane		YEB	0	0	1	-		1	0	0	:	1	-	-	7.415400	3.71E+02	7.42E+01	No =
	28 29	2-Chloro-Ethylvinyl Ether ChloroForm		YES	0	0	:	1	:	-	0	0	1	:	:	-	1.000402	5.11E+03	1.02E+03	No
	30 31	4.4' - DDD 4.4' - DDE		YES YES	0	0	1	:	÷.	-	0	0	1	-	:	1	1.015-04	9.08E-03 6.41E-03	1.82E-03 1.28E-03	No
	32	4.4' - DDT Dichlorobromo-Methane		YES YES	0	0	1.100	6.171	1.234	No	0	0	0.001	0.007	0.001	No	1.UEXCI	6.41E-03 5.03E+02	1.28E-03 1.01E+02	No No
	34	1, 1-Dichloroethane		YES	0	0	1	:		-	0	0	:	1	:	1	2145-01	1.07E+03	2.14E+02	No
	36	Trans-1, 2-Dichloro-Ethylene		YES	0	0	:	:		-	0	0	:	:	:	:	ATTEND	4.21E+04 2.09E+05	8.41E+03 4.17E+04	No No
	38	1, 2-Dichloropropane		120	0	0	-		-	-	0	0		-	:	1	12540	6.05E+01	1.21E+01 1.75E+01	No
	40	Dieldrin		YES	0	0		1.348	0.289	No	0	0	0154	0.399	0.080	No	5.128-05	1.58E-03	3.13E-04	No
	41	Methyl Bromide			0	0	-		-	-	0	0	1	-		-	8.71E-02	6.2DE+03	1.24E+03	No
	43	Methyl Chloride Methylene Chloride		YES	0	0	1			-	0	0	1		-	-	S and all	1.736+04	3.46E+03	No
	45	1, 1, 2, 2-Tetrachioro-Ethane Tetrachioro-Ethylene		YES	0	0	1			-	0	0	1	-		-	LIPERO	9.60E+01	1.92E+01	No
	47	Toluene Toxaphene		YES	0	0	0750	4.098	0.619	No	0	0	in Grout In	0.001	0.000	No	1.02510	8.11E-03	1.62E-03	No
	49	Tributyton (T8T) 1, 1, 1-Trichloroethane		YES	0	0	0.00	2.581	0.516	No	0	0	0,073	0.513	0.103	No	1	1		-
Virst Virst C C C C<	51	1, 1, 2-Trichloroethane Trichlorethylene		YES YES	0	0	:			-	0	0	1		-	-	1756-01	4.58E+02 8.75E+02	9.11E+01 1.75E+02	No No
	53	Vinyl Chloride P-Chloro-M-Cresol		YES	0	0	:	:	:	-	0	0	:	-	-	-	Lagenco	7.13E+01	1.43E+01	No
	55	2-Chlorophenol			8	0	:	:	-	:	0	0	:	:		-	1.721-00	6.20E+02 1.22E+03	1.24E+02 2.45E+02	No No
all consistent of all constraints all constrain	57	2, 4-Dimethylphenol			0	0	:	:	:	-	0	0		-	-	-	496-5	3.54E+03	7.08E+02	No
Image Visso Visso <th< td=""><td>59</td><td>2, 4-Dinitrophenol</td><td></td><td>VER</td><td></td><td>0</td><td>-</td><td>-</td><td>-</td><td>-</td><td>0</td><td>0</td><td></td><td>-</td><td>-</td><td>-</td><td>1110-00</td><td>2.21E+04</td><td>4.43E+03</td><td>No</td></th<>	59	2, 4-Dinitrophenol		VER		0	-	-	-	-	0	0		-	-	-	1110-00	2.21E+04	4.43E+03	No
Image: Constrained interpretation of the second s	61	Dioxin (2,3,7,8-TCDD)		YES	8	0	-	-	-	-	0	0	1	-		-	2012-00	1.34E-08	2.67E-07	No
Image: Second	63	2-Nitrophenol 4-Nitrophenol			U	0			-	-	0	0	-		-	-				-
VEB VEB O <td>65</td> <td>Pentachlorophenol Phenol</td> <td></td> <td>YES</td> <td>0</td> <td>0</td> <td></td> <td>48.941</td> <td>9.788</td> <td>No -</td> <td>0</td> <td>0</td> <td></td> <td>4/.041</td> <td>9.526</td> <td>-</td> <td></td> <td>3.56E+08</td> <td>7.12E+05</td> <td>No</td>	65	Pentachlorophenol Phenol		YES	0	0		48.941	9.788	No -	0	0		4/.041	9.526	-		3.56E+08	7.12E+05	No
Mol Antipy Market Mol B I	68 67	2, 4, 6-Trichlorophenol Acenaphthene		YES	0	0	1	-		-	0	0	1	-	-	-		7.08E+01 4.12E+03	1.42E+01 8.24E+02	No
Totestade YE O O -	68	Acenaphthylene Anthracene			0	0	1	1	-	-	0	0	1	-	:	1	2415-04	1.89E+05	3.32E+04	No
T T	70	Benzidine Benzo(A)Anthracene		YES	0	0	1	1		-	0	0	:	1	-	1	1.075-00	8.25E-04 5.34E-01	1.85E-04 1.07E-01	No No
I I	72	Benzo(A)Pyrene Benzo(b)fluoranthene		YES	0	0	1	1		-	0	0	-	-	1	1	1.012-00	5.34E-01 7.58E-02	1.07E-01 1.52E-02	No No
Tale Colorestary Method YB 0 0 - <td>74</td> <td>Benzo(GHI)Perylene Benzo(K)Fluoranthene</td> <td></td> <td>-</td> <td>0</td> <td>0</td> <td>:</td> <td>-</td> <td>-</td> <td>-</td> <td>0</td> <td>0</td> <td>:</td> <td>1</td> <td>1</td> <td>1</td> <td>4.070-00</td> <td>7.58E-02</td> <td>1.52E-02</td> <td>No</td>	74	Benzo(GHI)Perylene Benzo(K)Fluoranthene		-	0	0	:	-	-	-	0	0	:	1	1	1	4.070-00	7.58E-02	1.52E-02	No
Tal Bia (2) Colonsol Provide (Private Colonsol Private (Private Colonsol Private (Private Colonsol Private Colonsol Pri	76	Bis (2-Chloroethoxy) Methane Bis (2-Chloroethyl)-Ether		YES	0	0	:	2	-	-	0	0	:		-	-	ANTEN	1.64E+01	3.08E+00	No
at 6 Sourcessort Provides Image Sourcessourcessort Provides Image Sourcessort Pr	78	Bis (2-Chloroiso-Propyl) Ether Bis (2-Ethylhavyl) Phthatata		YES	0	0 25.8	:	:	:	-	0	0	:	:	:	-	1.000-000	2.69E+05 8.42E+01	5.38E+04 1.28E+01	No No
C - Consequent states	80	4-Bromophenyl Phenyl Ether			0	0	:	-	:	-	0	0		-	:	:	1.000100	8 02E+03	- 1 60F+03	- No
C - Crysee YEB O - <t< td=""><td>82</td><td>2-Chloronaphthalene</td><td></td><td></td><td></td><td>0</td><td></td><td>-</td><td>-</td><td>-</td><td>0</td><td>0</td><td>:</td><td>-</td><td>-</td><td>-</td><td>110-C</td><td>6.58E+03</td><td>1.32E+03</td><td>No</td></t<>	82	2-Chloronaphthalene				0		-	-	-	0	0	:	-	-	-	110-C	6.58E+03	1.32E+03	No
Bit Object: All Michaelane YEB Discussion Michaelane YEB Discussion Michaelane Sector Michaelane Bit Schelane YEB Discussion Michaelane YEB Discussion Michaelane Sector Michaelane Bit Schelane YEB Discussion Michaelane YEB Discussion Michaelane YEB Discussion Michaelane Clock Michaelane YEB Discussion Michaelane YEB Discussion Michaelane YEB Discussion Michaelane Clock Michaelane YEB Discussion Michaelane YEB Discussion Michaelane YEB Discussion Michaelane Clock Michaelane YEB Discussion Michaelane YEB Discussion Michaelane YEB Discussion Michaelane Clock Michaelane YEB Discussion Michaelane YEB Discussion Michaelane YEB Discussion Michaelane Signification Michaelane Clock Michaelane YEB Discussion Michaelane YEB Discussion Michaelane Discussion Michaelane Discussion Michaelane Giscussion Michaelane YEB Discussion Michaelanelane Discussion Michaelane Discu	84	Chrysene Di N. Budd Ekthelete		YES	0	0	:	:	:	-	0	0	:		-	1	1075-00	5.34E-01	1.07E-01	No
all 1: Subchysterinan TES all all interview all all inte	86	Di-N-Octyl Phthalate		VER	0	0	-			-	0	0	-	-	-	-	1000.00	5 34E CH	1075.01	No
Control operation Control operation <thcontrol operation<="" th=""> Control operation</thcontrol>	88	1, 2-Dichlorobenzene		160		0	1	-	-	-	0	0	1	-	-	-	755-61	5.38E+03	1.08E+03	No
10 1. <th< td=""><td>90</td><td>1, 3-Dichlorobenzene 0, 1, 4-Dichlorobenzene</td><td></td><td></td><td>0</td><td>0</td><td>1</td><td>-</td><td></td><td>-</td><td>0</td><td>0</td><td>-</td><td></td><td>-</td><td>-</td><td>TALEND</td><td>8.01E+02</td><td>1.60E+02</td><td>No</td></th<>	90	1, 3-Dichlorobenzene 0, 1, 4-Dichlorobenzene			0	0	1	-		-	0	0	-		-	-	TALEND	8.01E+02	1.60E+02	No
B) Description YEB B C -	91	2 Diethyl Phthalate		YES		0	1	-	1	-	0	0	1			-	No. of the	8.32E+01 1.82E+05	1.66E-01 3.64E+04	No
66 2, 6 Ohrdrotkune 9 0 - - - 0 0 - - - 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 1.2-0 0.277 No 0 0.280 0.000 No 3.285.0 2.005-00 5.185-00 1.516-00 No 3.885.0 1.206 0.000 No 3.885.0 1.206-00 5.185-00 1.206 0.000 No 3.885.0 1.206-00 5.185-00 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 3.885.0 1.206-00 1.206-00 1.206-00 1.206-00 1.206-00 1.206-00 1.206-00 1.206-00 1.206-00 1.206-00 1.206-00 1.206-00 <t< td=""><td>90</td><td>Dimethyl Phthalate 2, 4-Dinitrotoluene</td><td>ł</td><td>YES</td><td>9</td><td>0</td><td>1</td><td>-</td><td>-</td><td>-</td><td>0</td><td>0</td><td>1</td><td>-</td><td>-</td><td>-</td><td>1.00.00</td><td>4.61E+08 9.92E+01</td><td>8.23E+05 1.98E+01</td><td>No</td></t<>	90	Dimethyl Phthalate 2, 4-Dinitrotoluene	ł	YES	9	0	1	-	-	-	0	0	1	-	-	-	1.00.00	4.61E+08 9.92E+01	8.23E+05 1.98E+01	No
YEs 0	96	2, 8-Dinitrotolusine 3 1,2-Diphenylhydrazine		1002	0	0	-	-	:	-	0	0	-	1	-	-	1.176-00	8.34E-01	1.67E-01	No
Bell Endourfan sulfiste YEB D - <td>97 98</td> <td>7 Endosulfan (alpha) 3 Endosulfan (beta)</td> <td></td> <td>YES</td> <td>0</td> <td>0</td> <td>0.00</td> <td>1.234</td> <td>0.247</td> <td>No No</td> <td>0</td> <td>0</td> <td>D COM</td> <td>0.399</td> <td>0.080</td> <td>No</td> <td>BASHAGE</td> <td>2.60E+03 2.60E+03</td> <td>5.19E+02 5.19E+02</td> <td>No</td>	97 98	7 Endosulfan (alpha) 3 Endosulfan (beta)		YES	0	0	0.00	1.234	0.247	No No	0	0	D COM	0.399	0.080	No	BASHAGE	2.60E+03 2.60E+03	5.19E+02 5.19E+02	No
101 Endin Addynde YE 0 0 -	96	Endosulfan sulfate		YE8 YE8	0	0	Ine	0.482	0.098	No	0	0	-	0.256	0.051	No	ASSENCE	2.60E+03 1.77E+00	5.19E+02 3.53E-01	No No
100 Function 0 0 - 1 - - - 1 - - - - - - - 1 - 1 - 1 - 1 - 1 - 1 1 - 1	101	Endrin Aldeyhde		YES	0	0	:	-	-	-	0	0	1	:	:	-	1102-01	8.83E+00 5.78E+02	1.77E+00 1.16E+02	No No
105 restance YES 0 0 1481 2.917 0.533 No 0 0 0.007 0.005 No 228648 1.156-03 2.226-04 No 105 Heachinobarzene (196 YES 0 0 - - - - - - - - - - 1.66-03 2.226-04 No 106 Heachinobarzene (196 YES 0 0 -	103	Fluorene Hentochior		YES	0	0	0.00	2.917	0.583	- No	0	0	0.000	0.027	0.005	No	ASM-OR	2.21E+04 2.32E-03	4.43E+03 4.64E-04	No No
107 Head-NetrodeAddene YES 0 0 - - - 0 0 - - - 107 108 Head-NetrodeAddene YES 0 0 - - 0 0 - - 0 0 - - 0 0 - - 0 0 - - 0 0 - - 0 0 - - 0 0 - - 0 0 - - 0 0 - - 0 0 - - 0 0 0 - - 0 </td <td>105</td> <td>Heptachlor Epoxide</td> <td></td> <td>YES</td> <td>0</td> <td>0</td> <td>0.62</td> <td>2.917</td> <td>0.583</td> <td>No</td> <td>0</td> <td>0</td> <td>0 1015</td> <td>0.027</td> <td>0.005</td> <td>No</td> <td>COLOR</td> <td>1.15E-03</td> <td>2.29E-04</td> <td>No</td>	105	Heptachlor Epoxide		YES	0	0	0.62	2.917	0.583	No	0	0	0 1015	0.027	0.005	No	COLOR	1.15E-03	2.29E-04	No
Ide matrix/or/2014/stat/ (splat) YES 0 -	107	Hexachlorobutadiene		YES	0	0	1	-	•	-	0	0	-			-	1/045401	5.39E+02	1.08E+02	No
110 (Instant) (guinna) TES 0 0 1.006 NO 0 - <t< td=""><td>108</td><td>Hexachlorocyclohexan (apra)</td><td></td><td>YES</td><td>0</td><td>0</td><td>-</td><td>6 200</td><td>4.008</td><td>-</td><td>0</td><td>0</td><td>-</td><td>+</td><td>-</td><td>-</td><td>BREAD</td><td>4.99E-01</td><td>9.995-02</td><td>No</td></t<>	108	Hexachlorocyclohexan (apra)		YES	0	0	-	6 200	4.008	-	0	0	-	+	-	-	BREAD	4.99E-01	9.995-02	No
U U <thu< th=""> <thu< th=""> <thu< th=""></thu<></thu<></thu<>	110	HexachlorocycloPentadiene		TES	0	0		-	-	-	0	0		-	-	-	1000-01	4.59E+03	9.19E+02	No
114 logobrone 0 0 - <th< td=""><td>112</td><td>2 Hexachloroethane 3 Indeno(1, 2, 3-CK)Pyrene</td><td></td><td>YES</td><td>0</td><td>0</td><td>1</td><td></td><td></td><td>-</td><td>0</td><td>0</td><td>1</td><td>-</td><td>1</td><td>-</td><td>4.575-42</td><td>1.37E+01 5.34E-01</td><td>1.07E-01</td><td>No</td></th<>	112	2 Hexachloroethane 3 Indeno(1, 2, 3-CK)Pyrene		YES	0	0	1			-	0	0	1	-	1	-	4.575-42	1.37E+01 5.34E-01	1.07E-01	No
116 116 0 0 - - 0 0 - <td>114</td> <td>4 Isophorone 5 Naphthalene</td> <td></td> <td></td> <td>0</td> <td>0</td> <td>1</td> <td></td> <td>:</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>-</td> <td></td> <td>:</td> <td>Selent</td> <td>3.99E+03</td> <td>7.98E+02</td> <td>No</td>	114	4 Isophorone 5 Naphthalene			0	0	1		:	1	0	0	1	-		:	Selent	3.99E+03	7.98E+02	No
111 Name YE6 0 0 - - 0 0 - - - 1.70E-01 1.70E-01 1.70E-01 113 Name YE6 0 0 - - - 0 0 - - - - 1.70E-01 3.75E-04 N 121 PC8-1221 YE5 0 0 - - - 0 0 0.77E-01 1.77E-03 3.75E-04 N 121 PC8-1242 YE5 0 0 - - - 0 0 0.77E-01 1.77E-03 3.75E-04 N 122 PC8-1242 YE5 0 0 - - - 0 0 0.77E-01 1.77E-03 3.75E-04 N 122 PC8-1246 YE5 0 0 - - - 0 0.100 0.200<	118	Nitrobenzene N-Nitrosodi-N-Propylamine		YES	0	0	1	-	1		0	0	:	-	:	-	2 224-01	2.87E+03 1.48E+01	5.75E+02 2.95E+00	No No
122 PCB-1016 YES 0 0 - - - 0 0 0.100 0.020 No 256/400 1.47E-03 3.75E-04 N 121 PCB-1222 YES 0 0 - - 0 0 2014 0.100 0.020 No 2764/02 1.47E-03 3.75E-04 N 121 PCB-1222 YES 0 0 - - 0 0 2014 0.100 0.020 No 2.76E-04 N 122 PCB-1226 YES 0 0 - - - 0 0 2014 0.100 0.020 No 2.76E-04 N 124 PCB-1246 YES 0 0 - - - 0 0 2.76E-04 N 2.76E-04 N 1.87E-03 3.75E-04 N 1.87E-03 3.75E-04 N 1.87E-03 3.75E-04 N 1.87E-03 3.75E-04 N	118	N-Nitrosodimethylamine		YES YES	0	0	1 :	•	1	-	0	0	:	1	-	-	1105-00	8.81E+01 1.75E+02	1.76E+01 3.51E+01	No No
122 PC8-1242 YES 0 0 - - - 0 0 0.100 0.200 No 3.78E/04 1.37E/03 3.78E/04 N 123 PC8-1246 YES 0 0 - - - 0 0 0.100 0.200 No 3.78E/04 N 124 PC8-1246 YES 0 0 - - - 0 0 0.100 0.200 No 3.78E/04 N 124 PC8-1246 YES 0 0 - - - 0 0 0.100 0.200 No 3.78E/04 N 125 PC8-1246 YES 0 0 - - - 0 0 0.000 0.200 No 3.78E/04 N 126 PC8-1260 YES 0 0 - - - 0 0 0.000 0.000 No 3.78E/04 N <t< td=""><td>120</td><td>PCB-1016 PCB-1221</td><td></td><td>YES</td><td>0</td><td>0</td><td>:</td><td>-</td><td></td><td>-</td><td>0</td><td>0</td><td>0 Diet</td><td>0.100</td><td>0.020</td><td>No</td><td>376-0</td><td>1.67E-03</td><td>3.75E-04 3.75E-04</td><td>No</td></t<>	120	PCB-1016 PCB-1221		YES	0	0	:	-		-	0	0	0 Diet	0.100	0.020	No	376-0	1.67E-03	3.75E-04 3.75E-04	No
124 PCB-1249 YES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	122	PCB-1232 PCB-1242		YES	0	0	:	:	:	-	0	0	0.014	0.100	0.020	No	37/645	1.87E-03	3.75E-04	No
122 PCB-1260 YES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	124	PCB-1248	-	YES	0	0	:	-	:	-	0	0	0.014	0.100	0.020	No	3746-00	1.87E-03	3.75E-04	No
1271 Phanasthrana	126	PCB-1260		YES	0	0	-	-		-	0	0	OPIA	0.100	0.020	No	ATICHE	1.87E-03	3.75E-04	No
128 Pyrane 0 0 0 0	128	Pyrene 1, 2, 4-Trichlorobenzene			0	0		-		-	0	0			-	-	2005-00	1.66E+04 2.91E+02	3.32E+03 5.83E+01	No

Facility Name: Elkmont Rural Village WWTP

NPDES No.: AL0056545

Enter Max Dely Discharge as reported by Applicant (Cg) Max Enter Aug Daily Discharge na reported by Applicant (C_) Ave $Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_s * C_r$ Parston Cuefficien (Stream / Lake) Background from upstream source (C_{ett}) Date May Background from upstream source (C₆₂) Monthly Ave Background Instream (C₄) Monthly Ave Background Instream (C₄) Daily Max 30 'ym' Type Pollutant 5 43 0 0 0 0 0 0 5 0
 Pietaki

 Pietaki 144 0 0 0 0 1.67 0 0.000663 8.5 0 0 YES 0.574 0.236 0.388 0.206 0.302 0.505 0.00073 9.18 0 0 0 16.2 0 0 15.5 0 0.330 σ 0 0 0 0 0000000 YES 0 YES YES YES YES YES YES YES 0 Yes Yes Yes 0 YES YES YES YES 0 YES YES YES YES YES YES YES 25.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 YES YES 2 YES YES YES YES YES YES YES

0.3	Enter Q ₄ = wastewater discharge flow from facility (MGD)
0.4641687	Ω_d = westewater discharge flow (cfs) (this value is caluciated from the MGD)
0	Enter flow from upstream discharge Qd2 = background stream flow in MGD above point of discharge
0	Qd2 = background stream flow from upstream source (cfs)
1.42	Enter 7Q10, Q _a = background stream flow in cfs above point of discharge
1.07	Enter or estimated, 1Q10, Q _a = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
11.39	Enter Mean Annual Flow, Q _e = background stream flow in cfs above point of discharge
3.21	Enter 7Q2, Q _e = background stream flow in cfs above point of discharge (For LWF class streams)
Erterin	Enter C _a = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q4 +Qd2+Q	Q, = resultant in-stream flow, after discharge
Calculated on other	C ₇ = resultant in-stream pollutant concentration in µg/l in the stream (after complete mbding occurs)
100	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

February 13, 2023

er13/2017

acility	Name:	Elkm	ont	Ru	al	Villa	je.	WWI

Free	invator F&W classification.			-	Mary Daily	Free	hwater Acute (j	µg4) Q _e ≈1Q10		200	Aura Daller	Free	water Chronic ((µg/l) Q. = 7Q10	0	Human Hee Caroin Nor	ith Consumptic ogen Q _{in} = Ann -Carcihogen Q	n Fish only (µg usl Average _ = 70:10	<u>//)</u>
Ю	Pollutant	RP?	Caroinogen yes	Beckground from upstream source (Cd2) Daily Max	Discharge as reported by Applicant (C _{strate})	Wuter Quality Criteria (C ₇)	Draft Permit Limit (C _{dnac})	20% of Draft Permit Limit	RP7	Background from upstream source (Cd2) Monthly Ave	Avg Dany Discharge as reported by Applicant (C _{dang})	Water Quality Criteria (C _r)	Draft Permit Limit (C _{darg})	20% of Draft Permit Limit	RP7	Water Quality Criteria (C ₇)	Draft Pernsit Limit (C _{daug})	20% of Dreft Permit Limit	RP?
1	1 Antimony 2 Arsenic		YES	0	5.63 0	SAC DA	1957.782	391.556	No	0 0	1.88 0	- 201.024	1060.775	212.155	No	3.03E-01	1.52E+03 7.74E+00	3.03E+02 1.55E+00	No No
-	3 Berylium 4 Cadmium			0	0		28.202	5.640	No	0	0	TONE	4.231	0.846	No	:	-	- L	-
	5 Chromium/ Chromium III 6 Chromium/ Chromium VI			0	0	10.000	6967.525 52.683	1793.505 10.577	No	0	0	TIME	1432.610 44.652	296.522 8.630	No		1		1
	7 Copper 8 Lead			0	5		114.482 1036.185	22.896	No	0	1.67	12.217	93.695 49.590	18.739 9.918	No	-	-	-	-
10	9 Mercury 0 Nickel			0	9.18	101.00	3084.577	612.915	No	0	8.5	10750	418.033	83.607	No	4.24E-02 9.93E+02	4.03E+03	8.06E+02	No
1:	2 Silver 3 Thallis co	-		0	0	3217	10.832	2.128	No	đ	0		20.280	4.008	-	THEM	1 115+00	2 225-01	- No
1.	4 Zinc 5 Cyapide			0	16.2		1173.650	234.730	No	D O	15.5	-	1453.193	290.639	No	1.49E+04	6.05E+04	1.21E+04 7.58E+03	No
10	6 Total Phenolic Compounds 7 Hardness (As CaCO3)			0	0 130000	-	-	-	-	0	0 123000	-	-	-	-	:		-	-
18	8 Acrolein 9 Acrylonitrile		YES	0	0		-	:	-	0	0	1	1	-	1	1456455	2.20E+01 3.68E+00	4.41E+00 7.36E-01	No No
20	0 Aldrin 1 Benzene		YES	0	0	Area	9.910	1.963	No -	0	0	:	1		1	2.ME/E	7.51E-04 3.95E+02	1.50E-04 7.90E+01	No No
2	2 Bromoform 3 Carbon Tetrachloride		YES	0	0	-	-	-	-	0	0	1		-	-	A STERA	2.01E+03 2.44E+01	4.02E+02 4.89E+00	No
25	4 Chlordane 5 Clorobenzene		YES		0	-	7.832	1.586	-	0	0	0.0043	0.017	0.003	No -		1.21E-02 3.68E+03	2.41E-03 7.36E+02	No
27	7 Chloroethane 8 2-Chloro-Ethybanyl Ether		169	0	0	-	-	÷	-	0	0	-	-	-	-		1.082.402	3.762401	-
29	9 ChloroForm 0 4 4' - DDD		YES	0	0	-	-	-	-	0	0	1	-	-	-	1.022-402	2.61E+03 4.63E-03	5.21E+02 9.26E-04	No No
31	1 4.4' - DDE 2 4.4' - DDT		YES	0	0	1.100	3.636	0.727	- No	0	0	0.001	0.004	0.001	 No	1.335-64	3.27E-03 3.27E-03	6.54E-04 6.54E-04	No No
33	3 Dichlorobromo-Methane 4 1, 1-Dichloroethane		YES	0	0	1			1	0	0	1		-	1	1.000-01	2.56E+02	5.13E+01	No -
35	5 1, 2-Dichloroethane 6 Trans-1, 2-Dichloro-Ethylene		YES	0	0	-	-	-	-	0	0	-	-		-	ERTENDE	5.46E+02 2.40E+04	1.09E+02 4.80E+03	No No
37	7 1, 1-Dichloroethylene 8 1, 2-Dichloropropane		YES	0	0	-	*	-	-	0	0			-	-	8-475-400	1.08E+05 3.45E+01	2.13E+04 6.90E+00	No
40	0 Dieldrin 1 Ethylbenzene		YES	0	0	0.940	0.793	0.159	No	0	0		0.227	0.045	No	3 102-02	7.98E-04	1.60E-04	No
43	2 Methyl Bromide 3 Methyl Chloride			0	0		-		-	0	0	-		-	-	ATTEN	3.54E+03	7.07E+02	No
44	4 Methylene Chloride 5 1, 1, 2, 2-Tetrachloro-Ethane		YES	0	0	- 1		-1	:	0	0	- 1	1	-	-	LANE-OF	8.63E+03 5.96E+01	1.77E+03 1.19E+01	No No
46	8 Tetrachloro-Ethylene 7 Toluene		YES	0	0	-	1	1	1	0	0	1	1	1	1	4.770-Ch	4.90E+01 3.54E+04	9.79E+00 7.06E+03	No No
48	B Toxaphene 9 Tributyltin (TBT)		YES	0	0	540	2.413 1.520	0.483	No No	0	0	GOVE	0.001	0.000	No No	10000	4.14E-03	6.27E-04	No "
51	1 1, 1, 1-Trichloroethane		YES	0	0		-	-	-	0	0	-	-	-	-	0.005-00	2.32E+02	4.65E+01	No
53	3 Vinyi Chloride 4 P-Chloro-M-Cresol		YES	0	0	-	-	-	-	6	0			-	-	-1/024481	3.64E+01	7.28E+00	No
55	5 2-Chlorophenol 6 2, 4-Dichlorophenol			0	0	-		-	-	0	0		-	-	-	8 /15 KDR	3.53E+02 6.98E+02	7.07E+01 1.40E+02	No No
57	7 2, 4-Dimethylphenol 8 4, 6-Dinitro-O-Cresol			0	0	1	-	1	1	0	0	1	:	-	1	4016-00	2.02E+03	4.04E+02	No
59 60	9 2, 4-Dinitrophenol 0 4,6-Dinitro-2-methylphenol		YES	0	0	-	1	1	1	0	0	1	-	-	1	SANEACS	1.26E+04 4.23E+03	2.53E+03 8.45E+02	No No
61	1 Dioxin (2,3,7,8-TCDD) 2 2-Nitrophenol		YES	0	0	1	-	- 1	-	0	0	1	-	-	-	3 676.438	6.81E-07	1.36E-07	No -
64	4 Pentachlorophenol		YES	0	0		28.832	5.786	No	0	0	0.053	27.167	5.433	No	1.745-00	4.51E+01	9.03E+00	No
66	6 2, 4, 6-Trichlorophenol 7 Acenaphthene		YES	0	0	-		-	-	Ŭ	0			-	-	1415-001	3.61E+01 2.35E+03	7.22E+00 4.70E+02	No
66	8 Acenaphthylene 9 Anthracene			0	0	-		-	-	0	0		-	-	-	1318-04	9.47E+04	1.89E+04	- No
70	0 Benzidine 1 Benzo(A)Anthracene		YES	0	0	1	-	1	-	0	0		1	1	1	1.10E-CA 1.477E-472	4.71E-04 2.72E-01	9.41E-05 5.44E-02	No No
73	2 Benzo(A)Pyrene 3 Benzo(b)fluoranthene		YES	0	0		1	1	-	0	0	1	1	-	1	1.0TEXE	2.72E-01 4.32E-02	5.44E-02 8.65E-03	No No
75	4 Benzo(GHI)Perylene 5 Benzo(K)Fluoranthene Bio (2 Chlorenthene)			0	0	-	-	-	-	0	0	1	-	-	-	TOTECA	4.32E-02	8.65E-03	No
71	7 Bis (2-Chloroethyl)-Ether 8 Bis (2-Chloroethyl)-Ether		YES	a	0		-	-	-	0	0		-	-	-	A UTE-UN	7.85E+00 1.53E+05	1.57E+00 3.07E+04	No
79	9 Bis (2-Ethylhexyl) Phthalate 0 4-Bromophenyl Phenyl Ether	YES	YES	0	25.8 0	1	1	1	-	0	8.6 0	1	-	-	1	1 200-00	3.27E+01	8.55E+00	Yes
81	1 Butyl Benzyl Phthalate 2 2-Chloronaphthalene			8	0	-	1	1	1	0	0	-	-	1	1		4.58E+03 3.75E+03	9.15E+02 7.50E+02	No No
83	3 4-Chlorophenyl Phenyl Ether 4 Chrysene		YES	0	0	-	•	÷	-	Q 4	0	1	-	-	-	-	2.72E-01	5.44E-02	No
86	6 Di-N-Octyl Phthalate		VEQ	0	0	-	-	-	-	0	0		-	-	-		1.06E+04	2.13E+03	No -
88	8 1, 2-Dichlorobenzene 9 1, 3-Dichlorobenzene		r ca	00	0	-	-	-	-	0	0	-	-	•	-	7.862100	3.07E+03	6.13E+02 4.57E+02	No
90	0 1, 4-Dichlorobenzene 1 3, 3-Dichlorobenzidine		YES	00	0	1	1	-	1	0	0	:	•	•	-	1 COEH2	4.57E+02 4.24E-01	9.13E+01 8.49E-02	No No
92	2 Diethyl Phthalate 3 Dimethyl Phthalate			0	0	1	-	-		0	0	1	-	-	-	EALE-DE	1.04E+05 2.63E+06	2.08E+04 5.26E+05	No No
95	4 2, 4-Dinitrotoluene 5 2, 6-Dinitrotoluene		TES	00	0	-		-	-	0	0	-		-	-	A ATTACK	5.06E+01	1.01E+01	No
97	7 Endosulfan (alpha) 8 Endosulfan (beta)		YES	0	0	0.22	0.727	0.145	No	0	0	0.010	0.227	0.045	No	CARE-OIL	1.32E+03 1.32E+03	2.65E+02 2.65E+02	No
99	9 Endosulfan sulfate 0 Endrin		YES YES	0	0		0.284	0.057	- No	0	0		0.146	0.029	No	1.100-001 1.100-001	1.32E+03 9.01E-01	2.65E+02 1.80E-01	No No
101	1 Endrin Aldeyhde 2 Fluoranthene		YES	0	0	-	-	1	:	0	0	1	-		1	ATTEAN BITTEAN	4.50E+00 3.29E+02	9.01E-01 6.59E+01	No No
103	3 Fluorene 4 Heptochlor		YES	0	0		1.719	0.344	No	0	0 0	- douel -	0.015	0.003	No	Access	1.26E+04 1.18E-03	2.53E+03 2.36E-04	No No
100	5 Heptachlor Epoxide 6 Hexachlorobenzene 7 Hexachlorobenzene		YES	0	0		1.719	0.344	NO -	0	0		0.015	0.003	-	1465-04	5.85E-04 4.29E-03	1.17E-04 8.57E-04	No
100	8 Hexachlorocyclohexan (alpha) 9 Hexachlorocyclohexan (heta)		YES	0	0	-			-	0	0			-	-	2560	7.28E-02 2.55E-04	1.46E-02 5.09E-02	No
110	0 Hexachlorocyclohexan (gamma) 1 HexachlorocycloPentadiene		YES	0	0		3.140	0.628	No	0	0	-		1	-	1.000-00	2.75E+01 2.62E+03	5.50E+00 5.24E+02	No
113	2 Hexachloroethane 3 Indeno(1, 2, 3-CK)Pyrene		YES	0	0	-	:	1	-	0	0	:	:		1	1.02-00	7.79E+00 2.72E-01	1.56E+00 5.44E-02	No No
114	4 Isophorone 5 Naphthalene			0	0	-	:	1	:	0	0	-	:		-	5412402	2.28E+03	4.55E+02	No -
110	6 Nitrobenzene 7 N-Nitrosodi-N-Propylamine		YES	0	0	- 1	1	-	1	0	0	1		-	-	ACHENICS ZIMENI	1.64E+03 7.53E+00	3.28E+02 1.51E+00	No No
118	9 N-Nitrosodimethylamine 9 N-Nitrosodiphenylamine		YES	0	0	-	-	-	-	0	0		0.057	0.044	-	S.C.S.A.C.	4.49E+01 8.94E+01	6.99E+00 1.79E+01	No
121	1 PCB-1221 2 PCB-1232		YES	0	0		-	-	-	0	0	10 DNA	0.057	0.011	No	57454D	9.55E-04 9.55E-04	1.91E-04 1.91E-04	No
123	3 PCB-1242 4 PCB-1248		YES YES	0	0			-	-	0	0	GONA	0.057	0.011	No	9745-09	9.55E-04 9.55E-04	1.91E-04 1.91E-04	No
125	5 PCB-1254 6 PCB-1260		YES	0	0	:	:	1	-	0	0	0.016	0.057	0.011	No No	171E-05	9.55E-04 9.55E-04	1.91E-04 1.91E-04	No No
127	7 Phenanthrene 8 Pyrene			0	0	-	1		1	0	0	1		-	-		9.47E+03	- 1.89E+03	No
12	St 1, 2, 4-1 nonioropenzeñe			0	0			-		0	0					A DESCRIPTION OF	1 66E+02	3 335 104	No

NPDES/SID Permit Fee Sheet

Permit Number:	AL0056545
Permittee:	Limestone County Water and Sewer
	Authority
Site:	Elkmont Rural Village WWTP
County:	Limestone
Submission Reference Number:	HPN-2XKC-MX9PZ
Submission Received Date	10/3/2022
Assigned Staff:	Sandra Lee
Total Charges:	\$15015.00
Totals Payments:	\$15015.00
Amount Due:	\$0.00 900

Charges

Туре	Amount
Base Charge: NPDES Individual Permit -	\$4290.00
Modification/Reissuance - Municipal (Form 188): ;	\$4290.00

Payments

Туре	Amount	Date	Check/Payment Confirmation Number
Payment	\$4290.00	11/02/2022	079699

Charges

Туре	Amount	
Base Charge: Modeling fee for update of current model.	\$4855.00	
Adjustment: Modeling Fee for facility expansion	\$4855.09	
Adjustment: Balancing out typo of 0.09	\$-0.09	

Payments

Туре	Amount	Date	Check/Payment Confirmation Number
Payment	\$9710.00	11/02/2022	079699

Charges

Туре	Amount
Base Charge: Toxicity Fee because the facility has	\$1015.00
Significant Industrial Users.	\$1015.00

Payments

Туре	Amount	Date	Check/Payment Confirmation Number
Payment	\$1015.00	11/02/2022	079699

EPA	Identificatio	n Number NPDES Permit AL00565	Number 545	F Elkmont F	Facility Name Rural Village WWTP		Form Approved 03/05/19 OMB No. 2040-0004			
Form 2A	Ş	EPA	U.S Application	S. Environme for NPDES F	ntal Protection Ag Permit to Discharg	ency e Was	tewater			
NPDES		N	NEW AND EXIS	STING PUBLI	CLY OWNED TRE	ATMEN	NT WORKS			
SECTIO	N 1. BAS	IC APPLICATION INFORMATION I	FOR ALL APP	LICANTS (40	CFR 122.21(j)(1) a	nd (9))	* * 22 ale g E			
	1.1	Facility name Elkmont Rural Village WWTP								
n ji jii n jii n seenaji		Mailing address (street or P.O. bo) P.O. Box 110	x)	;	·		1			
tion		City or lawn Athens		· · · · ·	State AL		ZIP code 35612			
nforma		Contact name (first and last) Ti Sam Thomas Op	itle perator		Phone number (256) 497-9700		Email address sthomas@lcwsa.com			
acility		Location address (street, route nur 18458 RURAL VILLAGE BACK WAY	mber, or other s	specific identif	ier) 🖾 Same a	s maili	ng address			
.		City or Iown Elkmont	<u> </u>		State AL		ZIP code 35620			
	1.2	Is this application for a facility that Yes → See instructions or requirements for r	L							
1.3 Is applicant different from entity listed under Item 1.1 above?										
		🗹 Yes		. [No → SKIP t	o ltem	1.4.			
		Applicant name	·							
		Limestone County Water and Sewe	er Authority	•						
ation		Applicant address (street or P.O. b P.O. Box 110) (xoc							
E		City or town			State		ZIP code			
t int		Athens			AL		35612			
Car		Contact name (first and last) Ti	itle	[Phone number		Email address			
App		Alan Lash En	gineering Mana	ager	(256) 527-0836		alash@lcwsa.com			
	1.4	is the applicant the facility's owner	, operator, or b	otn? (Cneck o	inly one response.)					
,		U Owner		perator		Ľ.	Both			
	1.5	To which entity should the NPDES	5 permitting auth	hority send co	rrespondence? (Ch	eck on	ly one response.)			
			<i>ر</i>	Applicant			(they are one and the same)			
ati	1.6	Indicate below any existing enviror number for each.)	nmental permits	s. (Check all th	hat apply and print of	or type	the corresponding permit			
E			Exist	ing Environme	ental Permits		U .			
mental P		NPDES (discharges to surfa water) AL0056545		RCRA (hazaro	lous waste)		UIC (underground injection control)			
Environ		PSD (air emissions)		Nonattainmen	t program (CAA)		NESHAPs (CAA)			
Existing		Ocean dumping (MPRSA)		Dredge or fill (404)	CWA Section		Other (specify)			
5. *										

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EPA	Identificati	on Number	NPDES Permit N AL005654	umber 5	Facility Nar Elkmont Rural Vill	ne age WWTP			Form Appro OMB N	oved 03/05/19 lo. 2040-0004		
	1.7	Provide the colle	ction system inform	nation requ	ested below for the treatr	nent works.		s	48.80 Miles	and the		
		Served	Served		(indicate percentage)		Ownership Status					
8		Elkmont, AL	53	100	% separate sanitary sewe % combined storm and sa	r nítarv sewer		Own		Maintain Maintain		
Ś					Unknown			Own	ō	Maintain		
S S		ERV Subdivision	480	_100	% separate sanitary sewe	r		Own		Maintain		
đi			400		% combined storm and sa	nitary sewer		Own		Maintain		
B					Unknown			Own		Maintain		
6				I—	% separate sanitary sewe	r		Own		Maintain		
					% combined storm and sa	initary sewer		Own	U U	Maintain		
State E						-	무무		<u> </u>	Maintain		
ASter					% combined storm and sa	nitary sewer	In	Own	n n	Maintain		
Ś.					Unknown			Ówn		Maintain		
		Total Population	533		κ ε •	4 4 5 U			e 24	¢		
8°.		Served		8	â			* * *				
			ystem:	1. 1	Combin San	itary Sewe	and ît					
		Total percentage sewer line (in mil	e of each type of les)			100 %				0%		
ountry	1.8	Is the treatment works located in Indian Country?										
S	1.9	Does the facility discharge to a receiving water that flows through Indian Country?										
hdi		Yes Vo										
B A DOWN TO A TO A	1.10	Provide design and actual flow rates in the designated spaces.							Design Flow Rate			
									0.150 mgd			
25 g				Annua	I Average Flow Rates (Actual)	نُ ^ن و ز	3	gas of the game			
d A Cate		Two Y	ears Ago		Last Year			T a set	his Year			
jn an Iow F			0.0775 mgd		. 0.0	742 mgd			0.	.0774 mgd		
S S			计连续通过 计算法	👘 Maxin	num Daily Flow Rates (/	Actual)		Sec. 19		a and a solo		
		Two Ye	ars Ago		Last Year			T	his Year			
		0.3617 mgd 0.4156 mgd						0.3635 mgd				
	1.11	Provide the total	number of effluent	discharge p	coints to waters of the Un	ited States	by type) .				
, is			Tot	al Number	of Effluent Discharge I	Points by Ty	/pe					
harge Pc by Type		Treated Efflue	Untreated	Effluent	Combined Sewer Overflows	Вурі	15505		Const Emer	ructed jency lows		
Dis		1	0		. O		0		c)		

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EPA	l Identificati	on Number	NPDES Permit Nu AL005654	imber S	Facility Nan Elkmont Rural Villa	ne age WWTP		Form Approved 03/05/19 OMB No. 2040-0004	
	1.7	Provide the colle Municipality Served	ction system inform Population Served	ation reque	sted below for the treatm Collection System Ty (indicate percentage)	nent works. pe		wnership Status	
eres (Elkmont, AL	53		% separate sanitary sewer % combined storm and sa Unknown	r nilary sewer	Own Own Own Own Own	□ Maintain □ Maintain □ Maintain	
stion S		ERV Subdivision	480		% separate sanitary sewer % combined storm and sa Unknown	r nilary sewer	IZ Own □ Own □ Own	MaintainMaintainMaintain	
n and Por	а 9 9			% separate sanitary sewer % combined storm and sanitary sewer Unknown			Own Own Own Own Own	MaintainMaintainMaintain	
on Systen			· · ·	 	% separate sanitary sewer % combined storm and sa Unknown	r nilary sewer	Own Own Own	□ Maintain □ Maintain □ Maintain	
Collecti		Total Population Served	533						
2014 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Total percentage	of each type of	Sepa	arate Sanitary Sewer Sy	100 %	S	bined Storm and anitary Sewer 0 %	
ountry	1.8	Is the treatment	works located in Ind	ian Country	/? [/] No				
Indian C	1.9	Does the facility	discharge to a recei	ving water	that flows through Indian				
	1.10	Provide design a	nd actual flow rates	in the desi	gnated spaces.		De	sign Flow Rate	
		· ·			Proposed Exp	pansion:		0.300 mgd	
		n s	着中 へ、	Annua	Average Flow Rates (Actual)	τ		
d Ac		Two Ye	ars Ago		Last Year		·	This Year	
n an W			0.0775 mgd		0.0	742 mgd		^{0.0774} mgd	
-99 -12				Maxim	um Daily Flow Rates (/	Actual)		8 E 5	
		Two Ye	ears Ago		Last Year	9 ₄₁		This Year	
			0.3617 mgd		0.4	156 mgd	0.3635 mgd		
ints S	1.11	Provide the total	number of effluent of Tota	lischarge p al Number	oints to waters of the Un of Effluent Discharge F	iled States Points by T	by type.		
charge Po by Type		Treated Efflue	nt Untreated	Effluent	uent Combined Sewer Bypa			Constructed Emergency Overflows	
Dia		1	. 0		: 0		0	0	

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EPA	Identifica	tion Number	NPDES	Permit Number 0056545	Elkm	Facility Name ont Rural Village W	WTP		Form Approved 03/05/19 OMB No. 2040-0004
	Outfal	is Other Than f	to Waters of the	e United State	es			-	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,12	Does the POI discharge to v	FW discharge wa waters of the Uni	astewater to b ited States?	asins, ponds, or	other surface impo	oundmei	nts that	do not have outlets for
	1 13	Drovide the la	ention of each s	urface impour	ndment and ass	cisted discharge i	nomati	on in th	a table helow
	1.15	PIONDE (IIE 10	Caton U Coun a	Surface In	noundment 1	cation and Disch	arne Da	UD IN UN	
			**		Average I	aily Volume			
7			Location		Discharge	Discharged to Surface			LOUS OF INTERMITTENT
~		·			ពោទ្រចា	Indment			
								Contin	uous
¥						ypu		Interm	ittent
,		NUCLEUR CONCERNMENT OF CONCERNMENT		1993), et part des transforments an 1993 an 1993				Contin	uous
						gpd			ittent
			Managara ang ang ang ang ang ang ang ang ang an				In	Contin	IIOUS
s						gpd		Interm	ittent
Por la	1.14	Is wastewater	applied to land?	?					
Met		🛛 Yes				to -> SKIP to Item	n 1.16.		
sal	1.15	Provide the la	nd application si	ite and discha	arge data reques	ted below.			
ods				Land	Application Si	e and Discharge	Data		
ŗ			n			Average Da	ilv Volu	me	Continuous or
Je o		Loca	ation		Size	Арр	lied		Intermittent
har							·		
)isc					acres			gpd	
er[2014				D Continuous
동					GU10	°		Sho	Intermittent
and					acre	s		gpd	Continuous
alls	1.16	Is effluent trar	nsported to anoth	her facility for	treatment prior f	o discharge?			
Ę		Yes	1	-		No 🔿 SKIP to Iter	m 1.21.		
	1.17	Describe the r	means by which	the effluent is	s transported (e.	., tank truck, pipe)			
	1.18	Is the effluent	transported by a	a party other the	han the applican	t?			
		Yes Yes	A. 5 Million 1999		M N	o → SKIP to Item	1.20.		
	1.19	Provide inform	nation on the trai	nsporter below	N	composition and a second of			
		Catthe name			Transpo	rter Data	- /	0 0	
۰ ۲		Enuty name				wawing accress	s (street	01 P.U	. DOX)
		City or town			•	State			ZIP code
		Contact name	(first and last)		e de la constante de la constan	Title			
		Phone numbe	۲. ۲			Email address			

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EPA	A Identifica	tion Number	NPDES Permi AL0056	it Number 545	Eikmont	Facility Name Rural Village WWTP	Form Approved 03/05/19 OMB No. 2040-0004
1 N	1.20	In the table belo receiving facility	w, indicate the nam	ne, address, con	tact informat	ion, NPDES number,	and average daily flow rate of the
eq		Facility name		Ke	ceiving rac	Mailing address (stree	et or P.O. box)
Intinu		City or town				State	ZIP code
ods Cc	`	Contact name (f	first and last)			Title	,
Metho		Phone number				Email address	
sposal		NPDES number	r of receiving facility	r (if any)	None	Average daily flow rat	le mgd
e or Dis	1.21	Is the wastewate have outlets to v	er disposed of in a waters of the United	manner other th I States (e.g., ur	an those aire iderground p	ady mentioned in Iten ercolation, undergrou	ns 1.14 through 1.21 that do not and injection)?
charg		Yes			No No	→ SKIP to Item 1.23.	
r Dis	1.22	Provide informa	tion in the table bel	ow on these oth	er disposal m	nethods. Disnosal Methods	an an an a faith faith y
and Othe		Disposal Method Description	Location of Disposal Site	e Dispo	ze of sal Site	Annual Average Daily Discharge Volume	Continuous or Intermittent (check one)
utfalls		an a sharan an a			acres	gpd	Continuous Intermittent
0		* *			acres	gpd	Continuous Intermittent
		AU10000000000000		9999 - Marketa (acres	gpd	Continuous
	1.23	Do you intend to Consult with you	o request or renew	one or more of t	he variances	authorized at 40 CFR t information needs to	R 122.21(n)? (Check all that apply.
Variance Request		Discharge Section 3	es into marine wate 101(h)) cable	ors (CWA	Water 302(b)	quality related effluer)(2))	nt limitation (CWA Section
	1.24	Are any operation	onal or maintenance	e aspects (relate	d to wastewa	ater treatment and eff	luent quality) of the treatment works
		the responsibility	y of a contractor?		🗹 No 🚽	SKIP to Section 2.	
	1.25	Provide location and maintenance	and contact inform e responsibilities.	nation for each o	ontractor in a	ddition to a descriptio	on of the contractor's operational
				Contractor 1	ntractor Into	Contractor 2	Contractor 3
<u>io</u>		Contractor name	9	General and an			
rmat		(company name Mailing address)			Nama and a subscription of the	
Info		(street or P.O. b	OX)		01060010000000000000000000000000000000	1.000 - 20 ¹⁰ - 100 - 2010	
actor		City, state, and z	ZIP		ACTION AND AND AND AND AND AND AND AND AND AN		
Contra		Contact name (fillast)	irst and		nanonanish with the statements	n 1994 ander ander an an an an	n. 1999 Middl ar gynyllan yw an a ddiagael yw ar yn ar ar ddiagael yn ar yn
		Phone number			045.4.0441449.5	200703 4.994	an concerne in the first of the first version
		Email address			No. I MINING WAY AND T		
		Operational and maintenance responsibilities of	of				
		Email address Operational and maintenance responsibilities of contractor	of				

EPA	Identifica	tion Number	NPDES Permit Nur	nber Elkrno	Facility Name nt Rural Village WWT	P	orm Approved 03/05/19 OMB No. 2040-0004					
CE OTIO	N 0 6 5				• " _{*0} # ° 6							
SECHO	N Z. AL	DITIONAL INFORMA	TION (40 CFR 122	.21(j)(1) and (2))	an the second	e e e e e e e e e e e e e e e e e e e						
÷ E	21	Does the treatment	works have a desir	in flow greater than or	equal to 0.1 mod?	# / ps						
Sign	2.1				SKID to Section 2							
Å		e res			SKIP to Section 5.	Maters Are	19 Me					
5	2.2	and infiltration.	nt works' current av	verage daily volume of	Inflow Average I	Jaily Volume of Innov	wand innitration					
litra							5210 gpc					
Ц Р		Indicate the steps th	e facility is taking t	o minimize inflow and	infiltration.							
inflow ar		CCTV inspections to	identify locations o	f I&I. Spot repairs as o	dificiencies are discov	ered.						
aphic	2.3	Have you attached a specific requirement	a topographic map is.)	to this application that	contains all the requi	red information? (Se	e instructions for					
Topog Topog		Yes No										
low Igram	2.4	Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.)										
Ë		Yes No										
nga dia	2.5	Are improvements to	o the facility schedu	iled?			-					
		🗹 Yes 🕔		🔲 No 🔿	SKIP to Section 3.	•						
plementation		1. Construction of a	dditional plant on-s	ite to add additional o	apacity							
iles of it		3.	· · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·							
1 Schedu		4.										
san	2.6	Provide scheduled of	or actual dates of co	mpletion for improven	nents.							
lent			Schedulec	f or Actual Dates of C	Completion for Impro	ovements	Attainment of					
Improven		Scheduled Improvement (from above)	Outfalls (list outfall number)	Begin Construction (MM/DD/YYYY)	End Construction (MM/DD/YYYY)	Begin Discharge (MM/DD/YYYY)	Operational Level (MM/DD/YYYY)					
aduled		1.	0012	0 9 /01/2024	03/01/2026	04/01/2026	04/01/2026					
Sch		2.										
"		3.		,								
, ¹		4.										
е ее. и и	2.7	Have appropriate per response.	rmits/clearances co	oncerning other federa	Vstate requirements t	been obtained? Brief	ly explain your					
		🗋 Yes		No	2	None required of	or applicable					
		Explanation:										

>

EP/	A Identific	ation Number NPE	DES Permit Number AL0056545	Elkmon	Facility Nan t Rural Villa	ie age WWTP		Form A ON	oproved 03/05/19 AB No. 2040-0004	
SECTIC	N 3. IN	EORMATION ON EFFLUEN	T DISCHARGES (40 CF	R 122.21(j)	(3) to (5))	ະ 2 ເຊ ອີ້ການເອີ້	un n n Be Spa B N n u	a a ⁵ 4 a a 5 a 5	3	
	3.1	Provide the following inform	mation for each outfall. (Attach addit	ional sheet	s if you have m	ore the	an three out	falls.)	
		State	Alabama				- <u>•</u> • •			
8		County	Limestone	Limestone						
Õutta			Elkmont	4 94 4		f				
ion of		Distance from shore		5 ft		n and rear (0,1 - 10, 10, 10 - 10, 10, 10 - 10, 10 - 10, 10 - 10, 10 - 10, 10 - 10, 10 - 10, 10 - 10, 10 - 10, 10 - 10, 10, 10 - 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	ft.		ft.	
scripti		Depth below surface								
, De		Average daily flow rate	0.0	774 mad			nad		mad	
		Latitude	34 ° 54′ 32.	1″N-	۰) H		9 i		
		Longitude	86° 59′ 57.	3″ √ री	P	, , ,		a	1 27	
harge Data	3.2	Do any of the outfalls desc	to iten	n 3.4.						
	3.3	If so, provide the following	information for each app	licable outfa	all,					
Disct			Outfall Number		Outfa	II Number	ه ^د م رئی در	Outfall N	umber	
riodic		Number of times per year discharge occurs								
or Pe		Average duration of each discharge (specify units)							F 	
sonal		Average flow of each discharge		mgd			mgd		mgd	
Š		Months in which discharge occurs								
и 	3.4	Are any of the outfalls listed	d under Item 3.1 equippe	ed with a dif	fuser?	.				
	25	L Yes	here at each applicable	outfall		SKIP to Ite	əm 3.6			
Type	5.5		Outfall Number	ouan.	Outfal	I Number	-^ #°¥	Outfall N	umber	
Diffuser					4 ⁶⁴ 4	<u>, , , , , , , , , , , , , , , , , , , </u>		<u>्र</u> ुप्र ² े ि । (4	19. 1945 - 194 19. 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 194 19. 19. 19. 19. 19. 19. 19. 19. 19. 19.	
0 9.5 1 9.5 1 1 10 1 10 1 10 1 10 10110010000000000		and an								
ers of U.S.	3.6	Does the treatment works of discharge points?	discharge or plan to disc	harge waste	arge wastewater to waters of the United States from one or more					
Wat		🗹 Yes			D No	→SKIP to Se	ction 6	3.		

EPA	A Identifica	tion Number	NPDES	S Permit Nun LOO56545	nber	Elkma	Fa ont Ru	cility Name Iral Village WWTP			Form Approved 03/ CMB No. 2040	05/19 -0004
	3.7	Provide the re	eceiving water a	ind related	I information	(if knowr	n) for (each outfall.	d			
				Outfa	ll Number <u>o</u>	012	C	Outfall Number		0	utfall Number	
		Receiving wa	ter name		Sulfur Creek							
no		Name of wate or stream sys	ershed, river, stem	Middle T	; Fennessee Lo	wer Elk						
. Descript		U.S. Soil Con Service 14-di code	servation git watershed			- 						
g Water		Name of state management	e /river basin	Te	Tennessee River							
Receiving		U.S. Geologic 8-digit hydrolo cataloging un	cal Survey ogic it code	1	2-06030004							
		Critical low flo	ow (acute)			cfs			cfs			cfs
		Critical low flo	ow (chronic)			cfs			cfs			cfs
		Total hardnes low flow	ss at critical		I	mg/L of CaCO₃			mg/L of CaCO₃		mg. Ca	/L of CO₃
	3.8	Provide the fo	ollowing informa	tion descr	ibing the trea	tment pr	ovide	d for discharges fr	om each	outfa	sH.	
				Outfa	il Number <u>o</u>	012	0	Outfall Number		0	utfall Number	
		Highest Leve Treatment (c apply per out	el of iheck all that fall)	Prir Equ sec Sec Adv Oth	nary Jivalent to condary condary /anced her (specify)			Primary Equivalent to secondary Secondary Advanced Other (specify)			Primary Equivalent to secondary Secondary Advanced Other (specify)	
scriptio		Design Remo Outfall	oval Rates by		0012							
ient De		BOD₅ or CBC	DD5		85	%			%			%
Treatm		TSS			85	5 %			%			%
		Phosphorus			Not applicab	le %		Not applicab	le %		Not applicable	%
		Nitrogen		Ø	Not applicab	le %		□ Not applicab	le %		☐ Not applicable	%
		Other (specif)	y)	Ø	Not applicab	le %		Not applicab	le %		Not applicable	%

		AL0056	5545	Elkmon	t Rural	Village W	WTP	OME	No. 2040-00
3.9	Describe the type of season, describe b	of disinfection u elow.	sed for the eff	luent from eac	h outfai	ll in the ta	ble below. If di	sinfection varie	s by
	UV Disinfection	1. 1			•		,		
			Outfall Num	bər <u>0012</u>		utfall Nur	nber	Outfall Nu	nber
	Disinfection type		UV Disinf	ection					
	Seasons used		All Sea	sons					
	Dechlorination used	4? []	Not applica Yes No	able		Not ap Yes No	dicable	Nota	pplicable
3.10	Have you complete	ed monitoring fo	r all Table A p	arameters and	l attach	ed the re No	sults to the app	lication package	je?
3.11	Have you conducte discharges or on ar	ed any WET tes ny receiving wa	ts during the 4 ter near the di	1.5 years prior ischarge points	to the d ;?	late of the $N_0 \rightarrow 0$	application on SKIP to Item 3.	any of the fac	ility's
3.12	Indicate the numbe discharges by outfa	er of acute and o	shronic WET t the receiving	ests conducted water near the	l since discha	the last p	ermit reissuand s.	e of the facility	's
			Outfall Nur Acute	nber_0012	Ou	tfall Num cute	ber	Outfall Nu	nber Chron
	Number of tests of water	discharge		6	248		<u> </u>	•0 i t-r v 75 s	Pp II
	Number of tests of water	receiving		0					
3.13	Does the treatment	works have a d	iesign flow gro	eater than or e	qual to	0.1 mgd7 No ➔	SKIP to Item 3.	.16.	
3.14	Does the POTW us reasonable potentia	e chlorine for d al to discharge	isinfection, us chlorine in its (e chlorine else effluent?	where i	in the trea	atment process	, or otherwise	have
3.15	Have you complete package?	nplete Table B, d monitoring fo	r all applicable	nne. Table B pollu	tants a	No ->	complete Table ed the results to	e B, omitting cl o this application	niorine. On
	Yes			· .		No			
3.16	 Does one or more of The facility has The POTW has The NPDES pasample other a each of its disc 	of the following is a design flow is an approved ermitting author additional paran charge outfalls (conditions apj greater than c pretreatment j rity has inform neters (Table (Table E).	ply? or equal to 1 m program or is r ed the POTW D}, or submit th	gd. equired that it n ne resu	l to develo nust samp Its of WE	op such a progr ole for the para T tests for acut	ram. meters in Tabl e or chronic to	e C, must xicity for
	Yes → Co a	omplete Tables pplicable.	C, D, and E a	IS .		No 🔿 (SKIP to Section	14.	
3.17	Have you complete package?	d monitoring fo	r all applicable	e Table C pollu	tants ar	nd attach	ed the results to	o this application	חכ
3.18	Have you complete attached the results	d monitoring for to this applicat	r all applicable ion package?	a Table D pollu	tants re	equired by	your NPDES	permitting auth	ority and
	Yes					No addi permitti	itional sampling ng authority.	required by N	PDES
							······································		

EPA	A Identifica	ation Number	NPDES Pennit Number AL0056545	Facili Elkmont Rura	ly Name I Village WWTP	Form Approved 03/05/19 OMB No. 2040-0004					
	3.19	Has the POT or (2) at least	N conducted either (1) minimum of four annual WET tests in the past 4	four quarterly WET .5 years?	tests for one year No → Complet Item 3.2	preceding this permit application e tests and Table E and SKIP to 6.					
	3.20	Have you pre	viously submitted the results of the	above lests to your	NPDES permitting No Provide	authority? results in Table E and SKIP to					
الله من عليه المادينية الم المادينية الم	3.21	Indicate the d	ates the data ware submitted to you	w NPDES permittin	nem 5.2	vide a summary of the results					
	J.2 (ate(s) Submitted (MM/DD/YYYY)		Summary of	Results					
Sontinued			10/19/2018 1 9/17/2019 1 10/8/2019 1 10/22/2019 1 10/27/2020 1 9/14/2021 1	Pass Fail Retest #1 Pass Retest #2 Pass Pass Pass							
g Data C	3.22	Regardless of toxicity?	how you provided your WET testin	g data to the NPDE	S permitting author	ity, did any of the tests result in					
stin	3 23	Describe the	cause(s) of the toxicity	LJ		liem 3.26.					
Effluent Te	0.20	2019 sample in samples in add	ndicated chronic toxicity. Unknown lition to effluent samples. Addtitio	cause for Toxicity. nal tests did not in	Contract Laborato dicate toxicity.	ry indicated issues with control					
	3.24	4 Has the treatment works conducted a toxicity reduction evaluation?									
		🔲 Yes			No 🗲 SKIP to I	tem 3.26.					
	3.20		s of any toxicity reduction evaluation	is conducted.							
1 43 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.26	Have you corr	pleted Table E for all applicable ou	tfalls and attached	the results to the ar	polication package?					
- 4 		Yes		V	Not applicable t information to the	ecause previously submitted the NPDES permitting authority.					
SECTIO	N 4. INC	USTRIAL DISC	HARGES AND HAZARDOUS WA	STES (40 CFR 122	2.21(j)(6) and (7))	۲					
	4.1	Does the POT	W receive discharges from SIUs or	NSCIUs?	No -> SKIP to Ite	em 4.7.					
ŝ	4.2	Indicate the n	umber of SIUs and NSCIUs that dis	charge to the POT	N.						
/ast		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Number of SIUs	* 5 d ² * * * * *	Numt	er of NSCIUs					
S S			· 1								
ð	43	Does the POT	W have an approved prefreatment	program?	· · ·	the second s					
N N		0000 1101 01	in india an approved predoutinent	program							
·· 5					No						
nd Ha		Yes			No						
harges and Ha	4.4	Yes Have you sub- identical to that application or	mitted either of the following to the I at required in Table F: (1) a pretreat (2) a pretreatment program?	VPDES permitting a ment program annu	No authority that contai al report submitted	ns information substantially within one year of the					
lischarges and Ha	4.4	Yes Have you sub- identical to tha application or Yes	mitted either of the following to the I at required in Table F: (1) a pretreat (2) a pretreatment program?	VPDES permitting ment program annu	No authority that contai al report submitted No -> SKIP to Ite	ns information substantially within one year of the m 4.6.					
dustrial Discharges and Ha	4.4	Yes Have you sub- identical to the application or Yes Identify the titl	mitted either of the following to the I at required in Table F: (1) a pretreat (2) a pretreatment program? e and date of the annual report or p	VPDES permitting a ment program annu I	No authority that contai al report submitted No → SKIP to Ite m referenced in Iter	ns information substantially within one year of the m 4.6. m 4.4. SKIP to Item 4.7.					
Industrial Discharges and Ha	4.4	Yes Have you sub- identical to tha application or Yes Identify the titl Have you corr	mitted either of the following to the I at required in Table F: (1) a pretreat (2) a pretreatment program? e and date of the annual report or p opleted and attached Table F to this	VPDES permitting a ment program annu I retreatment progra application packag	No authority that contain tal report submitted No → SKIP to Iten m referenced in Iten te?	ns information substantially within one year of the m 4.6. n 4.4. SKIP to Item 4.7.					

EPA	Identifical	tion Number		NPDES P ALOC	ermit Number 056545	Facili Elkmont Rura	ily Name al Village WWTP	Form Appro OMB N	wed 03/05/19 o. 2040-0004
$c = \frac{mr^{2}}{m} \frac{mr^{2}}{mr} \frac{mr^{2}}{m$	4.7	Does the PO regulated as I	FW receiv RCRA ha	e, or has zardous	s it been notified that wastes pursuant to (t it will receive, b 40 CFR 261? 고	y truck, rail, or dedi No → SKIP to Ite	cated pipe, any wastes m 4.9.	that are
	4.8	If yes, provide	the follow	wing info	mation:				
		Hazardous Numbe	Waste r	Waste Transport Meti (check all that apply			00	Annual Amount of Waste Received	Units
					Truck		Rail		
ontinued					Dedicated pipe		Other (specify)	_	
Ŭ,		1.00.000000000000000000000000000000000	tang mananang manang		Truck	· · ·	Rail		
us Waste					Dedicated pipe		Other (specify)	_	
ardo					Truck		Rail		
and Haza					Dedicated pipe		Other (specify)		
						. L			
lal Discharge	4.9	Does the POT including thos	W receiv e underta	e, or has ken purs	it been notified that suant to CERCLA ar	t it will receive, w nd Sections 3004 [7]	astewaters that orig (7) or 3008(h) of R No ➔ SKIP to S	inate from remedial ac CRA? ection 5.	tivities,
ndustr	4.10	Does the POT specified in 40	W receiv CFR 26	e (or exp 1.30(d) a	nd 261.33(e)?	than 15 kilogram	ns per month of non	-acute hazardous waste	es as
ر ۲۵ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰		🗌 Yes 🚽	SKIP to	Section	5.		No		
	4.11	Have you reposite(s) or facili the extent of the the extent of the exten	orted the ity(ies) at reatment,	following which th if any, t	information in an at e wastewater origina ne wastewater recei	ttachment to this ates; the identitie ves or will receiv	application: identifi s of the wastewate e before entering th	cation and description of r's hazardous constitue te POTW?	of the nts; and
ça X B		🛛 Yes					No		
SECTIO	N 5. CO	MBINED SEWE	ER OVER	FLOWS	(40 CFR 122.21(j)(8	8))			ه _{ال} ه کړ
E.	5.1	Does the treat	lment wor	ks have	a combined sewer s	system?	Þ		
agra		🗋 Yes					No →SKIP to S	ection 6.	
Ö	5.2	Have you atta	ched a C	SO syste	m map to this appli	cation? (See inst	ructions for map re	quirements.)	
, d		🔲 Yes					No		
Ň	5.3	Have you atta	ched a C	SO syste	em diagram to this a	pplication? (See	instructions for diag	gram requirements.)	
S		🗋 Yes					No		

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EP/	A Identifica	ation Number	NPDE	ES Permit Number AL0056545	Eikr	Facility Name nont Rural Village	e WWTP	Form	Approved 03 OMB No. 2040	/05/19 }-0004
,	5.4	For each CS	O outfall, provid	de the following informat	tion. (A	ttach additional s	heets as neces	sary.)		
- 1			ź.	CSO Outfall Number		CSO Outfall N	umber	CSO Outfail	Number _	
· · · · ·		City or town					4. 1 A			
criptlo		State and ZIF	^o code							
ll Des		County								
Outfa		Latitude		o ' "		• •	ų	ð	ş	
CSO CSO	-	Longitude		ç 3 <i>11</i>		• •	N	٥	; ,	
		Distance from	n shore		ft.		ft.			ft.
		Depth below	surface		ft.		ft.			ft.
	5.5	Did the POTV	N monitor any	of the following items in	the pas	st year for its CSC	O outfalls?			_
5				CSO Outfall Number	. <u> </u>	CSO Outfall N	umber	CSO Outfall	Number_	
		Rainfall		🗆 Yes 🖾 No		🗆 Yes	🖾 No	C Ye	s 🗆 No	
itoring		CSO flow vol	ume	🗆 Yes 🗖 No		🗆 Yes	D No	🗆 Ye	s 🗆 No	
0 Mon		CSO pollutan concentration	it IS	🗋 Yes 🗖 No		🗆 Yes	□ No	🗆 Ye	s □No	
S		Receiving wa	iter quality	🗆 Yes 🖾 No		🗆 Yes	🗖 No	🗆 Ye	s □No	
		CSO frequen	су	🗆 Yes 🗆 No		🗆 Yes	D No	🗆 Ye	s 🗆 No	
		Number of st	orm events	🗆 Yes 🗆 No		🗆 Yes	□ No	🗆 Ye	s 🗆 No	
	5.6	Provide the following information for each of your CSO outfalls.								
				CSO Outfall Number		CSO Outfall N	lumber	CSO Outfal	l Number _	
ast Year		Number of C: the past year	SO events in	e	vents		events		6/	vents
ts in Pa		Average dura	ition per		hours		hours		h - El Cotino	nours
ven						LI Actual of L				
SOE		Average volu	me per event	million g	allons			million gallons		liions
Ü				Actual or CI Estim	ated	LI Actual or L	_ Estimated	LI Actual o		ited
		Minimum rain	in last year	inches of n	aintail	inc	nes of rainfall		inches of ra	untali
		1 2 000 01011	ar nuor your	Actual or D Estim	ated	Actual or D	⊥ Estimated	🛛 Actual o	r 🗀 Estima	ted

s.

EPA Identification Number		NPD	AL0056545	5 5	Eikr	nont Rural Village WW	ЛЪ	OMB No. 2040-0		
5. 5	5.7	Provide the in	formation in th	ne table be	low for each	of your	CSO outfalls.			
			CSO Out				CSO Outfall Numb	07 <u></u> .	CSO Outfall Number	
r alselyr Ball Pay Al					17 3 3		Colored on State and a second	ka a na na kata kata Pa		
		Name of wate								
alagen in Tali Taligi N		stream system	11 SI NGU/ 11							
alen		U.S. Soil Con	servation		J Unknown					
		Service 14-digit watershed code (if known) Name of state management/river basin								
		U.S. Geologie	al Survey	C] Unknown		Unknown		Unknown	
		8-Digit Hydrologic Unit Code (if known)			· · · · · · · · · · · · · · · · · · ·					
		Description of	f known							
		water quality impacts on receiving stream by CSO								
		(see instruction	ons for							
TION 6	CH	ECKLIST AND	CERTIFICAT	ION STAT	EMENT (40	CER 12	2 22(a) and (d))			
6	1		pelow mark th	e sections	of Form 24 t	bat wou	have completed and a	no submittin	a with your application	
2014 2014		each section, all applicants	specify in Col are required to	umn 2 any o provide a	attachments ttachments.	that yo	u are enclosing to aler	t the permitt	ing authority. Note that n	
		Section 1: Basic Application				A. Mark	Com	mn 2.	A MARTIN PARTY OF THE	
Ser and a series of the series	,	L Inform	ation for All A	oplicants	U w/v	ariance	request(s)		w/ additional attachme	
		Section Inform	n 2: Additional ation		v/ta □ w/a	opograp dditiona	hic map I attachments		w/ process flow diagram	
a and a second		Section 3: Information o Effluent Discharges			w/ Table A				w/ Table D	
i a				n on	년 w/ T	able B			w/ Table E	
					w/ Table C				w/ additional attachme	
		Sectio	on 4: Industrial narges and Hazardous les on 5: Combined Sewer		w/ SIU and NSCIU attachments				w/ Table F w/ additional attachmen	
		Waste			🔲 w/a	w/ additional attachments				
		Sectio			w/ CSO map					
5		- Overfl	ows		U w/C	w/ CSO system diagram				
		Certific	Section 6: Checklist and Certification Statement			w/ attachments				
6	.2	Certification	Statement							
		I certify under accordance w submitted. Ba for gathering complete. I an and imprison	r penalty of law with a system d ised on my inq the information n aware that the ment for knowi	r that this d lesigned to uiry of the n, the inform here are sign no violation	locument and assure that person or pe nation subm gnificant pen as	d all atta qualifiec ersons w itted is, i alties for	chments were prepare I personnel property ga ho manage the system to the best of my know r submitting false infor	ed under my ather and ev n, or those p rledge and b mation, inclu	direction or supervision raluate the information versons directly responsit elief, true, accurate, and iding the possibility of fin	
		Name (print or type first and last name)						Official tit	le	
		Daryl Williams	on					CEO		
		Signature	1.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			······.		Date sign	ned	
- 3 F - 1	- 1	Signature						Į į		
		1/	Ind		· ·			120	2.0.7	

EPA Form 3510-2A (Revised 3-19)

EPA Identification Number	NPDES Permit AL00565	Number 545	Facility Name Elkmont Rural Village WWTP		Outfall Number 0012		Form Approved 03/05/19 OMB No. 2040-0004
TABLE A. EFFLUENT PARAMET	ERS FOR ALL POT	VS VI Discharge		Average Daily Dis	charge		
Poilutant	Value	Units	Value	Units	Number of Samples	Method ¹	(include units)
Biochemical oxygen demand ☐ BOD₅ or Ø CBOD₅ (report one)	12.0	mg/L	1.53	mg/L	114	SM 5210	2.0 mg/L ☐ ML ☑ MDL
Fecal coliform (E. coli)	730	col/100mL	28	col/100mL	114	SM 9223 B	2 col/100 ☐ ML ☑ MDL
Design flow rate	0.364	MGD	0.0754	MGD	114		
pH (minimum)	7.1	s.U.					理會 (1)
pH (maximum)	8.15	S.U.					
Temperature (winter)	23.2	*c	15.0	•C	60		
Temperature (summer)	28.0	°C	24.6	°C	54		
Total suspended solids (TSS)	4.40	mg/L	0.31	mg/L	114	USGS I-3765-85	2.50 mg/L ML

³ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit N AL005654	lumber 15 Elk	Facility Name mont Rural Village WV	VTP	0012		Form Approved 03/05/19 OMB No. 2040-0004
TABLE B. EFFLUENT PARAMETE	RS FOR ALL POTW	WITH A FLOW EQ	UAL TO OR GREATE	R THAN 0.1 MGD	a *	ж с	
	Maximum Da	ily Discharge	Average Daily Discharge			Analytical	MI or MDI
Pollutant	Value	Units	Value	Units	Number of Samples	Method ¹	(include units)
Ammonia (as N)	5.32	mg/L	0.13	mg/i	114	FIALab 100	0.10 mg/L IML
Chlorine (total residual, TRC) ²	N/A	N/A	N/A	N/A	N/A	N/A	
Dissolved oxygen	11.38	mg/L	8.72	mg/L	114	SM 4500	
Nitrate/nitrite	34.3	mg/L	10.36	mg/L	9	EPA 300.0	0.1 mg/L ☑ ML ☑ MDL
Kjeldahl nitrogen	5.24	mg/L	2.08	mg/L	8	FIALab 100	0.1 mg/L ☑ ML ☑ MOL
Oil and grease	N/A	N/A	N/A	N/A	N/A	N/A	
Phosphorus	3.64	mg/L	2.35	mg/L	8	SM 4500	0.1 mg/L ☐ ML ☑ MDL
Total dissolved solids	N/A	N/A	N/A	N/A	N/A	N/A	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3). ² Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not

required to report data for chlorine.

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	EPA Identification Number	NPDES Permit N AL005654	umber 5 (Facility Name Elkmont Rural Village WW	Ог	itall Number 0012		Form Approved 03/05/19 OMB No. 2040-0004
TÂ	BLE C. EFFLUENT PARAMETE	RSFOR SELECTED	POTWS					
	. 9	Maximum Da	uily Discharge	A	verage Daily Discha	ige	Analvtical	ML or MDL
	Pollutant	Yalue	Unita	Value	Units	Number of Samples	Method ¹	(include units)
Mei	tals, Cyanide, and Total Pheno	13						
	Hardness (as CaCO ₃)	130	mg/L as CaCO3	3 123	mg/L as CaCO3	3	EPA 200.7	1.00 mg/L 2 ML 2 MDL
	Antimony, total recoverable	5. 63	ug/L	1.88	ug/L	3	EPA 200.7	1.00 ug/L I ML
	Arsenic, total recoverable	ND	ug/L	ND	ug/L	З	EPA 200.7	1.00 ug/L ☑ ML ☑ MDL
1 55	Beryllium, total recoverable	ND	ug/L	ND	ug/L	3	EPA 200.7	1.00 ug/L ☐ ML ☑ MDL
	Cadmium, total recoverable	ND	ug/L	ND	ug/L	3	EPA 200.7	1.00 ug/L ☐ ML ☑ MDL
	Chromium, total recoverable	ND	ug/L	ND	ug/L	3	EPA 200.7	1.00 ug/L 🖸 ML 🖸 MDL
na tire	Copper, total recoverable	5.00	ug/L	1.67	ug/L	3	EPA 200.7	1.00 ug/L I ML
	Lead, total recoverable	ND	ug/L	ND	ug/L	3	EPA 200.7	1.00 ug/L 🖾 ML 🗹 MDL
	Mercury, total recoverable	0.730	ng/L	0.663	ng/L	3	EPA 1631	0.50 ng/L D ML 2 MDL
1.5	Nickel, total recoverable	9.18	ug/L	8.50	ug/L	3	EPA 200.7	1.00 ug/L 🖸 ML
	Selenium, total recoverable	ND	ug/L	ND	ug/L	3	EPA 200.7	1,00 ug/L 2 MDL
	Silver, total recoverable	ND	ug/L	ND	ug/L	3	EPA 200.7	1.00 ug/L 🖸 ML 🗹 MDL
	Thallium, total recoverable	ND	ug/L	ND	ug/L	З	EPA 200.7	1.00 ug/L [] ML [] MDL
	Zinc, total recoverable	16.2	ug/L	15.5	ug/L	3	EPA 200.7	1.00 ug/L I ML
	Cyanide	ND	ug/L	ND	ug/L	3	ASTM 07511	1.00 ug/L 🖸 ML 🖾 MDL
1.27	Total phenolic compounds	ND	ug/L	ND	ug/L	3	EPA 420.1	
Vo	latile Organic Compounds							
	Acrolein	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L Z ML
	Acrylonitrile	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L ☐ ML ☑ MDL
	Benzene	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L I ML
	Bromoform	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L 🖸 ML
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MUNICIPAL SECTION

	EPA Identification Number	NPDES Permit N AL005654	umber 5 Elk	Facility Name mont Rural Village WW		tfall Number 0012		Form Approved 03/05/19 OMB No. 2040-0004
TÀ	BLE CLEFFLUENT PARAMETE	TERSFOR SELECTED FOTWS						
	P3 - 14 - 4 4	Maximum Da	ily Discharge	A	verage Daily Dischar	rge	Analytical	ML or MDL
	Pollutant	Value	Units	Value	Units	Number of Samples	Nethod ¹	(include units)
	Carbon tetrachloride	ND	ug/L	ND	ug/L	3	EPA 624	2.00 ug/L 2 ML
s	Chlorobenzene	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L ☑ ML ☑ MDL
	Chlorodibromomethane	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L ☑ ML ☑ MDL
	Chloroelhane	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L 2 ML 2 MDL
	2-chloroethylvinyl ether	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L 2 ML
	Chloroform	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L 2 ML
	Dichlorobromomethane	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L ☐ ML ☑ MDL
	1,1-dichloroethane	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L ☑ ML ☑ MDL
	1,2-dichloroethane	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L ☐ ML
	trans-1,2-dichloroethylene	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L 2 ML
	1,1-dichloroethylene	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L [] ML [] MDL
	1,2-dichloropropane	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L Z ML
	1,3-dichloropropylene	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L I ML I MDL
	Ethylbenzene	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L ☐ ML ☑ MDL
	Methyl bromide	ND	ug/L	ND	ug/L	3	EPA 624	2.00 ug/L 2 ML 2 MDL
	Methyl chloride	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L DML Z MDL
1,40408 (2012) (2012) (2012)	Methylene chloride	ND	ug/L	ND	ug/L	3	EPA 624	2.00 ug/L ZI MOL
	1,1,2,2-tetrachloroethane	ND	ug/L	ND	ug/L	3	EPA 624	
	Tetrachloroethylene	ND	ug/l	ND	ug/L	3	EPA 624	1.00 ug/L DML
	Toluene	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L DML Z MDL
	1,1,1-trichloroethane	ND	ug/L	ND	ug/L	3	EPA 624	1.00 ug/L ☐ ML ☑ MDL
	1,1,2-trichloroethane	NPRECEN	ED ug/L	ND	ug/L	3	EPA 624	1.00 ug/L 2 ML

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	EPA Identification Number	NPDES Permit N AL005654	umber 5	Facility Name Elkmont Rural Village	WWTP	Out	tfall Number 0012		Form Approved 03/05/19 OMB No 2040-0004
Ū⁄A	SUS CHEEFILUENT PARAMETE	रस्तर्भावत्रश्चावद्यावण	ronws.						and the second
	Dalludané	Naximum Da	illy Discharge		Average Daily Discharge			Analytical	ML or MDL
	Pollutant	Value	Units	Value		Unita	Number of Samples	Mathod ¹	(include units)
ante (Segue	Trichloroethylene	ND	ug/L	ND		ug/L	3	EPA 624	1.00 ug/L I ML
	Vinyl chloride	ND	ug/L	ND		ug/L	3	EPA 624	1.00 ug/L DML Zi MDL
Aci	d-Extractable Compounds								
	p-chloro-m-cresol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L ☑ ML ☑ MDL
	2-chlorophenol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L 2 ML
5-45 5-45 5-45	2,4-dichlorophenol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L ☑ ML ☑ MDL
	2,4-dimethylphenol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L I ML
	4,6-dinitro-o-cresol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L ☐ ML ☑ MDL
	2,4-dinitrophenol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L ☑ ML ☑ MDL
	2-nitrophenol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L ☐ ML ☑ MDL
	4-nitrophenol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L I ML I MOL
	Pentachlorophenol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L DML
5E	Phenol	ND	ug/L	. ND		ug/L	3	EPA 625	2.00 ug/L 2 ML 2 MDL
	2,4,6-trichlorophenol	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L DML 2 MDL
Bas	se-Neutral Compounds								
	Acenaphthene	NÐ	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L 2 ML
	Acenaphthylene	ND	ug/L	ND		ug/L	3	EPA 625	
	Anthracene	ND	ug/L	ND		ug/L	3 .	EPA 625	2.00 ug/L ☐ ML
	Benzidine	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L 2 ML
	Benzo(a)anthracene	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L I ML
	Benzo(a)pyrene	ND	VED ug/L	ND		ug/L	3	EPA 625	2.00 ug/L I ML
	3,4-benzofluoranthene	ND	ug/L	ND		ug/L	3	EPA 625	2.00 ug/L 2 ML

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	EPA Identification Number	NPDES Permit Number Faci AL0056545 Elkmont Rur		Facility Name Iont Rural Village WW	ИТР	Outfall Number 0012		Form Approved 03/05/19 OMB No. 2040-0004	
14.1	BLE CALEFEL VENT PARAMETIC	ners for selected points							
	Pollutont.	Maximum Da	ily Discharge	9	A	verage Daily Dis	charge	Analytical	ML or MDL
	Pollutant	Value	Units	3	Value	Units	Number of Samples	Method ¹	(include units)
	Benzo(ghi)perylene	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L IML
43 924 ye	Benzo(k)fluoranthene	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L ☐ ML ☑ MDL
	Bis (2-chloroethoxy) methane	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 🖸 ML Ø MDL
	Bis (2-chloroethyl) ether	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
	Bis (2-chloroisopropyl) ether	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
	Bis (2-ethylhexyl) phthalate	25.8	ug/L		8.6	ug/L	3	EPA 625	2.00 ug/L 🖸 ML
	4-bromophenyl phenyl ether	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
	Butyl benzyl phthalate	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 2 MDL
	2-chloronaphthalene	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
	4-chlorophenyl phenyl ether	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L ☐ ML ☑ MDL
	Chrysene	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L ☐ ML ☑ MDL
	di-n-butyl phthalate	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 🖸 ML Ø MDL
	di-n-octyl phthalate	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L I ML
	Dibenzo(a,h)anthracene	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L ☐ ML ☑ MDL
	1,2-dichlorobenzene	ND	ug/L		ND	ug/L	3	EPA 624	1.00 ug/L 🛛 ML
	1,3-dichlorobenzene	ND	ug/L		ND	ug/L	3	EPA 624	1.00 ug/L □ ML ☑ MDL
	1,4-dichlorobenzene	ND	ug/L		ND	ug/L	3	EPA 624	1.00 ug/L 🖾 ML
	3,3-dichlorobenzidine	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 🖸 ML
	Diethyl phthalate	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
	Dimethyl phthalate	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L [] ML [] MDL
	2,4-dinitrotoluene	ND	ug/L		ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
2	2,6-dinitrotoluene	ND RECE	VED Ug/L		ND	ug/L	3	EPA 625	2.00 ug/L I ML

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EPA Identification Number	NPDES Permit N AL00S654	lumber 15 E	Facility Name Ikmont Rural Village WV	VTP	Outfall Number 0012		Form Approved 03/05/19 OMB No. 2040-0004
TABLE CLEEFLUENT, PARAMET		POTWS				and a second second Second second	
	Maximum Da	aily Discharge	Δ	verage Daily Disch	ange	Analytical	ML or MDL
Pollutant	Yalue	Units	Value	Units	Number of Samples	Heinod ¹	(include units)
1,2-diphenylhydrazine	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L I ML
Fluoranthene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
Fluorene	ND	ug/L	ND	ug/l	3	EPA 625	2.00 ug/L g ML
Hexachlorobenzene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
Hexachlorobutadiene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L Ø MDL
Hexachlorocyclo-pentadiene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L DML
Hexachloroethane	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L DML
Indeno(1,2,3-cd)pyrene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L I ML
Isophorone	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L D ML
Naphthalene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
Nitrobenzene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
N-nitrosodi-n-propylamine	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L 2 ML
N-nitrosodimethylamine	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L DML
N-nitrosodiphenylamine	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L ML
Phenanthrene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L D ML
Pyrene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L DML
1,2,4-trichlorobenzene	ND	ug/L	ND	ug/L	3	EPA 625	2.00 ug/L DML

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number AL0056545	Facility Name Elkmont Rural Village WWTP	Outfall Number		Form Approved 03/05/19 OMB No. 2040-0004
TABLE D. ADDITIONAL POLLUT	ANTS AS REQUIRED BY NPDES	PERMITTING AUTHORITY			
Pollutant (fist)	Maximum Daily Dischar Value	rge Average Its Value	e Daily Discharge Units Samples	Analytical Method ¹	ML or MDL (include units)
No additional sampling is re	quired by NPDES permitting auth	ority.	ಕಾರಿಕಾ ಕರ್ಶಿಕರೆ ದೇವಿ ೧೯೫೬ ಕೆ. ೧ <u>೯</u> ೭ - ಮ		
· · · · · · · · · · · · · · · · · · ·				·····	
	5				D ML D MDL
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¹Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number N	PDES Permit Number AL0056545	Facility Name Elkmont Rural Village W	Outfall Number WTP 0012	Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TOXICI	ŢΫ́		
The table provides response space for one whether the table provides response space for one whether tables are tables and tables are tables and tables are	hole effluent toxicity sample.	Copy the table to report ac	ditional test results.	
Test Information				$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Test Numbe		Test Number <u>2</u>	Test Number <u>3</u>
Test species	Ceriodaphni	a dubia	Pimephales promelas	Ceriodaphnia dubia
Age at initiation of test	<24 hr	S	24-36 hrs	•
Outfail number	0012		0012	
Date sample collected	09/13/20	021	09/13/2021	09/14/2020
Date test started	09/14/2	021	09/14/2021	09/15/2020
Duration	7 Day:	5	7 Days	7 Days
Toxicity Test Methods	2 m 2 m 3 m 4	No. 1920 - San		na bala a sura da ante a sura da ante a sura da ante a sura a sura da ante a sura
Test method number	1002.0)	1000.0	1002.0
Manual title	Survival and Rep	production	Survival and Growth	Survival and Reproduction
Edition number and year of publication	Ed. 4, 20	02	Ed. 4, 2002	Ed. 4, 2002
Page number(s)	141		53	141
Sample Type	n ng di mg ng	and a star of the factor		an a
Check one:	Grab		Grab	Grab
	24-hour composite	I	24-hour composite	24-hour composite
Sample Location				
Check one:	Before Disinfection		Before Disinfection	Before disinfection
-	After Disinfection		After Disinfection	After disinfection
	After Dechlorination		After Dechlorination	After dechlorination
Point in Treatment Process		n a am up an 10 an an 10 Au - No	an a	and a state of the
Describe the point in the treatment process at which the sample was collected for each test.	After UV disinfection and discharge to Sulfur Creek.	before final After disch	UV disinfection and before final arge to Sulfur Creek.	After UV disinfection and before final discharge to Sulfur Creek.
Toxicity Type	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \\ \end{array} \end{array} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\$			
performed to asses acute or chronic toxicity.			Acute	
or both. (Check ane response.)			Chronic	L Chronic
	Both		Both	D Both

EPA Identification Number NI	DES Permit Number Facility Name AL0056545 Elkmont Rural Village		e Outfall Number age WWTP 0012		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	DXICITY	a B D ye _n i en d	а к ^с сссссссссссссссссссссссссссссссссс	10.1 11.1 12.1 12.1 12.1 12.1 12.1 12.1	
The table provides response space for one wh	nole effluent toxicity sa	mple. Copy the table to re	port additional test res	sults.		
	Test Nu		Test Ni	umber <u>2</u>	Test Ni	umber <u> </u>
Test Type						
Indicate the type of test performed. (Check one	Static		Static Static		Static Static	
response.)	Static-renewal		Static-renewal		Static-renewal	
	Flow-through	Flow-through		Flow-through		
Source of Dilution Water		ા કહે છે. આ આ આ ગામ છે. કે			in the second	an ⁿ Branc an
Indicate the source of dilution water. (Check	Laboratory wate	ЭГ	Laboratory wat	er	Laboratory wat	er
one response.)	Receiving water			r	Receiving wate	r
If laboratory water, specify type.		SDW		SDW		SDW
If receiving water, specify source.			,			
Type of Dilution Water		······································	· · · · · · · · · · · · · · · · · · ·	in the second		
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	Fresh water	(fy)	Fresh water	ify)	Fresh water	ify)
Percentage Effluent Used		- Things - The meriding and			e entre la compaña de la co	eni divin enin . Sa caluna en di ana en di
Specify the percentage effluent used for all concentrations in the test series.		7%		7%		7%
Parameters Tested				 All A contraction of a cont		
Check the parameters tested.	∣ 🗹 рН	🛛 Ammonia	⊡ pH	🔲 Ammonia	🗋 рН	L. Ammonia
	Salinity	Dissolved oxygen	Salinity	Dissolved oxygen	Salinity	Dissolved oxygen
	L. Temperature		LI Temperature		L Temperature	
Acute Test Results	and the state of the second					an shine a shi
Percent survival in 100% effluent		N/A %		N/A %		N/A %
LC50		a mana an				
95% confidence interval		%		%		%
Control percent survival		%		%		%

EPA Identification Number	NPDES Permit Number AL0056545	Facility Nam Elkmont Rural Villa	e ge WWTP	Outfall Number		Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FC	R WHOLE EFFLUENT TOX	ICITY	***		a a a a a a a a a a a a a a a a a a a	a a a a a a a a a a a a a a a a a a a
The table provides response space for on	e whole effluent toxicity sam	ple. Copy the table to rep	ort additional test resu	lts.		
	. Test Num		Test Nun	nber 2	Test Num	ber <u>3</u>
Acute Test Results Continued						
Other (describe)						
Chronic Test Results	8 r Mr. Dr. r.	an a		an a that and a state of a state	ting and the second se	an the second
NOEC		7 %		7 %		7 %
IC25		0.2442 %	0.5416 %		N/A %	
Control percent survival		90 %		100 %		N/A %
Other (describe)						
Quality Control/Quality Assurance		the charge in the		μ ^η , , , , , , , , , , , , , , , , , , ,	e a construction and a construct	
Is reference toxicant data available?	Yes	□ No	Yes	No No	Yes	I No
Was reference toxicant test within acceptable bounds?	☑ Yes	□ No	☑ Yes	□ No	TYes	□ No
What date was reference toxicant test run (MM/DD/YYYY)?	08/10/20	21	08/10/20	21	* *	the second s
Other (describe)						

EPA Identification Number	NPDES Permit Number AL0056545	Facility Name Elkmont Rural Villa	Facility Name Outfall Num Rural Village WWTP 0012		Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FO	R WHOLE EFFLUENT TOXI	ICITY :	ск. м. н. к. н. к.	α (α) (α	- 3 ⁴ 29
The table provides response space for on	e whole effluent toxicity samp	ole. Copy the table to rep	ort additional test i	results.	
Test Information			" " " " " " " " " " " " " " " " " " "		And a second second The second s The second se The second second The second s
	Test Num	ber <u>4</u>	Ţest	Number 5	Test Number
Test species	Ceriodaph	nia dubia	Ceric	daphnia dubia	Pimephales promelas
Age at initiation of test	24-36	6 hrs		<24 hrs	24-36 hrs
Outfall number	00	12		0012	0012
Date sample collected	09/14	/2020			
Date test started	09/15,	/2020		······	
Duration	7 D	ays		7 Days	
Toxicity Test Methods			ne liter i s	ನ ಸಿ ² ್ ಕ್ಷೆ ಕ್ಷೇತ್ರ ಕ್ ಕಿಲ್ಲೇಕ್ ಫ್ಲೀಕ್ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್	
Test method number	100	0.0		1002.0	1000.0
Manual title	Survival an	nd Growth	Survival	and Reproduction	Survival and Growth
Edition number and year of publication	Ed. 4,	2002	l	Ed. 4, 2002	Ed. 4, 2002
Page number(s)	5	3		141	53
Sample Type	A CONTRACTOR OF A CONTRACTOR				
Check one:	Grab		🗖 Grab	,	Grab
	24-hour composite	. ·	24-hour com	posite	24-hour composite
Sample Location		n a s s s s s s s s s s s s s s s s s s	A set of the set of	and a second sec	
Check one:	Before Disinfection	n	Before Disinf	ection	Before disinfection
	After Disinfection	¢	After Disinfec	tion	After disinfection
	After Dechlorinatio	ท่	After Dechlor	ination	After dechlorination
Point in Treatment Process			$\frac{1}{2} \sum_{i=1}^{N} \frac{1}{N_{i}} \sum_{i=1}^{N} \frac{1}{N_{$		
Describe the point in the treatment proces at which the sample was collected for eac test.	SS After UV disinfection ar discharge to Sulfur Crea	nd before final ek.	After UV disinfecti discharge to Sulfu	ion and before final r Creek.	After UV disinfection and before final discharge to Sulfur Creek.
	• = 1975 a	Para and a second second	ه، بر ک ې بر ک ^و	And the second	
Indicate for each test whether the test wa	S Anuto	way to VIII a weather with the weather way		ententin de Mari, «Ali	an a
performed to asses acute or chronic toxic					
or both. (Check one response.)					
	🗀 Both		🗀 Both		L L Both

n.

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EPA Identification Number Ni	PDES Permit Number AL0056545	Facility Nan Elkmont Rural Villa	ne age WWTP	Outfall Number 0012		Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	DXICITY .	क्षांक भेदा <i>क</i> क ∷क ∺ क	a	*	æ 6 n € ∷
The table provides response space for one wh	nole effluent toxicity sa	mple. Copy the table to rep	port additional test res	sults.		
	Test Nu	imber 4		umber 5	Test N	u mber <u>6</u>
Test Type	Barran and an an an an	الالالالي المنابع والمحتوية و	$\sum_{n=1}^{N_{\mathrm{exp}}} \frac{1}{n} \sum_{k=1}^{N_{\mathrm{exp}}} \frac{1}{n} \sum_{\substack{n=1\\n \neq n}} \frac{1}{n} \sum_{k=1}^{N_{\mathrm{exp}}} \frac{1}{n} \sum_{\substack{n=1\\n \neq n}} \frac{1}{n} \sum_{n=$			
Indicate the type of test performed. (Check one	Static		Static		Static Static	
response.y	Static-renewal		Static-renewal		Static-renewal	
	Flow-through		Flow-through		Flow-through	
Source of Dilution Water		and the second	a na			
Indicate the source of dilution water. (Check	Laboratory wate	er	Laboratory wate	er	Laboratory wat	er
one response.)	Receiving water	r	Receiving wate	r	Receiving wate	ar i i
If laboratory water, specify type.		SDW		SDW		SDW
If receiving water, specify source.						
Type of Dilution Water	utilities and the second s			e ¹ 5 w = 1 × x g 6.0, 0 _v∞ _n d ¹ 5 x ^v g ≣m ^v		
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial	Fresh water		Fresh water		Fresh water	
sea salts or brine used.	Salt water (specification of the specification of t	(y)	Salt water (speci	ity)	LI Salt water (spec	ify)
Percentage Effluent Used	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		and and and a second		an a concernent for the second	
Specify the percentage effluent used for all concentrations in the test series.		7%		7%		7%
Parameters Tested	r a sentra in t					and the state of the second se
Check the parameters tested.	🗹 рН	Ammonia	Г pH	Ammonia	🗇 рН	Ammonia
	Salinity	Dissolved oxygen	Salinity	Dissolved oxygen	Salinity	Dissolved oxygen
	Temperature		Temperature		Temperature	
Acute Test Results	an an the second	e de la ^e m	a start a start			
Percent survival in 100% effluent		N/A %		N/A %		N/A %
LC ₅₀						
95% confidence interval		%		%		%
Control percent survival		%		%		%

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EPA Identification Number	NPDES Permit Number AL0056545	Facility Nam Elkmont Rural Villa	e ge WWTP	Outfall Number 0012		Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORIN	G FOR WHOLE EFFLUENT TOXI	CITY			6	* * *
The table provides response space fi	or one whole effluent toxicity samp	ole. Copy the table to rep	ort additional test r	esuits.		
	Test Num	per <u>4</u>	Test	Number 5	Test Num	
Acute Test Results Continued		್ ಸ್ಟ್ರಾನ್ ಕ್ಷೇಕ್ರಿ ಸಂಕಾಣ ಕ್ಷೇಕ್ರ ಶ್ಲೇಶ್ವಾತ ಹಿಡಿ	हों के प्राप्त की के 1957 कर कि मुझ्ले के 1957 कर कि मुझ्ले के 1957			
Other (describe)						
Chronic Test Results		the grade to the second		n an da a nga gina a sa	and the second sec	
NOEC		7 %		7 %		7 %
IC ₂₅		N/A %		N/A %		. N/A %
Control percent survival		N/A %		N/A %		N/A %
Other (describe)						
Quality Control/Quality Assurance	an a	س مېر قرير تر د مد. س مېر قرير د مد. س مېر مړ ها د	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		A CHINE AND A AND	
Is reference toxicant data available?	🗆 Yes	No No	☐ Yes	I No	Yes	I No
Was reference toxicant test within acceptable bounds?	Yes	□ No	🗆 Yes	□ No	T Yes	🗆 No
What date was reference toxicant tes (MM/DD/YYYY)?	st run					
Other (describe)						

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EPA Identification Number	NPDES Permit Numbe AL0056545	er	Elk	Facility Name Elkmont Rural Village WWTP			Form Approved 03/05/19 OMB No. 2040-0004		
ALABLE F. INDUSTRIAL DISCHARGE INFORM	ATION.	eee 4463	(14.2) (14.2)				24597235 2 245		
Response space is provided for three SIUs. Cop	y the table to report information	ation for additional 3	SIUs.						
4	SIU	1	51	SIL	J	*	SIL	J	
Name of SIU	Snap-On Logistic	s Company							
Mailing address (street or P.O. box)	18771 Carter's	s Circle							****
City, state, and ZIP code	Elkmont, AL 3	35620							
Description of all industrial processes that affect or contribute to the discharge.					48 - 2 / 201 - 2 / 201 - 2 / 201 - 2 / 201 - 2 / 201 - 2 / 201 - 2 / 201 - 2 / 201 - 2 / 201 - 2 / 201 - 2 / 20			an a	
	Wastewater associated operations.	d with metal finishi	ing						
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Black Oxide	e Tools							
Indicate the average daily volume of wastewater discharged by the SIU.		2780	gpd			gpd			gpd
How much of the average daily volume is attributable to process flow?		2780	gpd			gpd			gpd
How much of the average daily volume is attributable to non-process flow?		0	gpd			gpd		,	gpd
Is the SIU subject to local limits?	☑ Yes	□ No		🗆 Yes		No	C Yes	□ No	
Is the SIU subject to categorical standards?	☑ Yes	□ No		🗖 Yes		No	T Yes	□ No	

EPA Identification Number	NPDES Permit Number AL0056545	Facility Name Elkmont Rural Village WWTP	Form Approved 03/05/19 OMB No. 2040-0004	
TABLE F. INDUSTRIAL DISCHARGE INFORMATI	ON			
		s. Siu	Siu	4.
Under what categories and subcategories is the SIU subject?	<u>ai di ang kang</u> ang kang kang kang kang kang kang kang k		<u>ಸ್ ಕ್ರಿಕ್ ಕ್ರಿಕ್ ಸಿಕ್ರಿಸ್ ಸಿಕ್ರಿ ಬಿಸ್, 1 ಹಿಸ್ಟರ್ ಕ್ರಿಕ್ ಸ್ ಸ್ಟ್ರಿಸ್ ಸ್ಟ್ರಿಸ್ ಸಿಕ್ರಿಸ್ ಸ್ಟ್ರಿಸ್ ಸಿಕ್ರಿಸ್ ಸಿಕ್ರಿ</u>	
	40 CFR Part 433.17 - Metal Finishing PSNS			
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	Yes 🗹 No	Yes 🖾 No	□ Yes □ No	
If yes, describe.				
· · ·				

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October 05, 2022

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

Lab ID	Sample Description	Date Collected	Date Submitted
DC08070-01	Elkmont Rural Effluent	09/27/2022	09/27/2022
DC08070-02	Elkmont Rural Effluent	09/27/2022	09/27/2022

This cover page and the attached chain-of-custody record(s) are integral parts of your report. Southern Environmental Testing considers this report your official record. This information shall remain in Southern Environmental Testing's active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call our Decatur facility at (256) 280-2567 or our Florence facility at (256) 740-5532.

& hargan Aiken

Margaret Aiken Project Manager

Reviewed by:

RECEIVED

JAN 2 5 2023

MUNICIPAL SECTION

3103 Northington Court Florence, AL 35630 (256) 740-5532 PO Box 487 Florence, AL 35630 (256) 740-5529 Fax 2919 Fairgrounds Road SW Decatur, AL 35603 (256) 280-2567 PO Box 2084 Decatur, AL 35602 (256) 350-0686 Fax



SAMPLE RESULTS REPORT

Report Date/Time: 10/05/2022 12:18

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611

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Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Sample ID: DC08070-01	Collected:	09/27/2022	Submitted:	09/27/2022
Metals by ICP-OES					
Total Silver		< 0.00125	mg l		
Total Arsenic		< 0.00500	mg/l		
Total Beryllium		< 0.00500	mg l		
Total Calcium		42.7	mg l		
Total Cadmium		< 0.00500	mg l		
Total Chromium		< 0.00500	mgʻl		
Total Copper		0.00500	mg/l		
Total Hardness		130	mg1CaCO3		
Total Magnesium		5.75	mg l		
Total Nickel		0.00785	mg/l		
Total Lead		<0.00500	mg l		
Total Antimony		0.00563	mg ł		
Total Sclenium		< 0.00500	mg l		
Total Thallium		< 0.00500	mg·l		
Total Zinc		0.0162	mg l		
Sample Point: Elkmont Rural Effluent	Sample ID: DC08070-02	Collected:	09/27/2022	Submitted:	09/27/2022
Inorganics					
Total Cyanide		< 0.00500	mg l		
Phenolics (4AAP)		< 0.0200	mg l		
Semivolatiles by EPA 625					
N-Nitrosodimethylamine		<2.00	ug/l		
Phenol		<2.00	ug l		
Bis(2-chloroethyl)ether		<2.00	ug l		
2-Chlorophenol		<2.00	ug/l		
Bis(2-chloroisopropyl)ether		<2.00	ug/l		
N-Nitrosodi-n-propylamine		<2.00	ug. I		
3103 Northington Court Florence, AI, 35630	PO Box 487 Florence, AL 35630	2919 Fairground Decatur, AL 356	s Road SW PO	Box 2084	

(256) 280-2567

(256) 740-5532

(256) 350-0686 Fax

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Sam Thomas	
Limestone County Water & Sewer	
17218 US Hwy 72	
Athens, AL 35611	

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Sample ID: DC08070-02	Collected:	09/27/2022	Submitted:	09/27/2022
Semivolatiles by EPA 625 (Continued)					
Hexachloroethane		<2.00	ug/l		
Nitrobenzene		<2.00	ug/l		
Isophorone		<2.00	ug/l		
2-Nitrophenol		<2.00	ug/l		
2,4-Dimethylphenol		<2.00	ug/l		
Bis(2-chloroethoxy)methane		<2.00	ug/l		
2,4-Dichlorophenol		<2.00	ug/l		
1,2,4-Trichlorobenzene		<2.00	ug/l		
Naphthalene		<2.00	ug/l		
Hexachlorobutadiene		<2.00	ug/l		
4-Chloro-3-methylphenol		<2.00	ug/l		
Hexachlorocyclopentadiene		<2.00	ug/l		
2,4,6-Trichlorophenol		<2.00	ug/l		
2-Chloronaphthalene		<2.00	ug/l		
Dimethylphthalate		<2.00	ug/l		
Acenaphthylene		<2.00	ug/l		
2,6-Dinitrotoluene		<2.00	ug/l		
Aeenaphthene		<2.00	ug/l		
2,4-Dinitrophenol		<2.00	ug/l		
4-Nitrophenol		<2.00	ug/l		
2,4-Dinitrotoluene		<2.00	ug/l		
Fluorene		<2.00	ug/l		
Diethylphthalate		<2.00	ug/l		
4-Chlorophenyl phenyl ether		<2.00	ug/l		
1,2-Diphenylhydrazine as Azobenzene		<2.00	ug/l		
4,6-Dinitro-2-methylphenol		<2.00	ug/l		
N-Nitrosodiphenylamine		<2.00	ug/l		

 3103 Northington Court	PO Box 487	2919 Fairgrounds Road SW	PO Box 2084
Florence, AL 35630	Florence, AL 35630	Decatur, AL 35603	Decatur, AL 35602
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SAMPLE RESULTS REPORT

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Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Collected:	09/27/2022	Submitted:	09/27/2022	
Semivolatiles by EPA 625 (Continued)					
4-Bromophenyl phenyl ether		<2.00	ug, l		
Hexachlorobenzene		<2.00	ug/l		
Pentachlorophenol		<2.00	ug. l		
Phenanthrene		<2.00	ug. l		
Anthracene		<2.00	ug. I		
Di-n-butylphthalate		<2.00	ug/l		
Fluoranthene		<2.00	ug/l		
Benzidine		<2.00	ug. 1		
Pyrene		<2.00	ug, l		
Butylbenzylphthalate		<2.00	ug/ł		
Benzo[a]anthracene		<2.00	ugʻl		
3,3'-Dichlorobenzidine		<2.00	ug, l		
Chrysene		<2.00	ug/l		
Bis(2-ethylhexyl)phthalate		<8.00	ug/ł		
Di-n-octy/lphthalate		<2.00	ug/l		
Benzo[b]fluoranthene		<2.00	ug/l		
Benzo[k]fluoranthene		<2.00	ug-l		
Benzo[a]pyrene		<2.00	ug/l		
Indeno(1,2,3-ed)pyrene		<2.00	ug l		
Dibenzo[a.h]anthracene		<2.00	ug/l		
Benzo[g.h.i]perylene		<2.00	ug I		
Volatiles by EPA 624					
Benzene		<1.00	ug/l		
Bromodichloromethane		<1.00	ug.1		
Bromoform		<1.00	ug/l		
Bromomethane		<2.00	ug/l		
Carbon tetrachloride		<2.00	ug.'		

3103 Northington Court	PO Box 487	2919 Fairgrounds Road SW	PO Box 2084
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contents of this report apply to the sample(s) analyzed in	accordance with the chain of cust	ody document. Results are only representative	of the



Report Date/Time: 10/05/2022 12:18

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611

REPORT TO

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Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Sample ID: DC08070-02	Collected:	09/27/2022	Submitted:	09/27/2022
Volatiles by EPA 624 (Continued)					
Chlorobenzene		<1.00	ug/l		
Chioroethane		<1.00	ug/l		
Chloroform		<1.00	ug/l		
Chloromethane		<1.00	ug/l		
Dibromochloromethane		<1.00	ug/l		
1,2-Dichlorobenzene		<1.00	ug/l		
1,3-Dichlorobenzene		<1.00	ug/l		
1,4-Dichlorobenzene		<1.00	ug/l		
1,1-Dichloroethane		<1.00	ug/l		
1,2-Dichloroethane		<1.00	ug/ł		
trans-1,2-Dichloroethylene		<1.00	ug/ł		
trans-1,3-Dichloropropylene		<2.00	ug/l		
1,2-Dichloropropane		<1.00	ug/l		
cis-1,3-Dichloropropylene		<1.00	ug/l		
Ethy! benzene		<1.00	ug/l		
Methylene chloride		<2.00	ug/l		
1,1,2,2-Tetrachloroethane		<1.00	ug/l		
1,1,1-Trichloroethane		<1.00	ug/l		
1,1,2-Trichlorocthane		<1.00	ug/l		
1,1-Dichloroethylcne		<1.00	ug/l		
Dichlorodifluoromethane		<1.00	ug/l		
Methyl Ethyl Ketone		<5.00	ug/l		
o-Xylene		<1.00	ug/l		
m & p-Xylene		<2.00	ug/l		
Tetrachloroethylene		<1.00	ug/l		
Tolucne		<1.00	ug/l		
Trichloroethylene		<1.00	ug/l		

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SAMPLE RESULTS REPORT

Report Date/Time: 10/05/2022 12:18

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Analyte Name		Result	Units	Qualifer	Regulatory Limit
ample Point: Elkmont Rural Effluent	Sample ID: DC08070-02	Collected:	09/27/2022	Submitted:	09/27/2022
Volatiles by EPA 624 (Continued)					
Trichlorofluoromethane		<1.00	ug/l		
Vinyl chloride		<1.00	ug/l		
2-Chloroethylvinyl ether		<1.00	ug/l		
Acrylonitrile		<1.00	ug/l		
Acrolein		<1.00	ug/I		
Acetone		<5.00	ug/i		
Methyl isobutyl ketone		<5.00	ug/l		
Styrene		<1.00	ug/l		
1,2,4-Trichlorobenzene		<1.00	ug/l		

sample(s) received and information supplied by the client may affect the validity of results. No duplication of this report is allowed, except in its entirety.



Report Date/Time: 10/05/2022 12:18

Analysis

End Date/Time

(BOD, CBOD, Coliforms)

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Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611

Analysis

All calculations are performed prior to rounding per EPA and Standard Methods requirements. Calibration data for field analyses conducted by SET or ENERSOLV personnel are available upon request.

Data Qualifiers

Sample matrix precluded reliable matrix spike/matrix spike duplicate recovery and/or precision. Non-homogeneity of sample or М presence of interfering substances may result in spike recoveries outside acceptance limits.

Referenced

Method

Analysis Information

Analyst

FLY

SET

Facility

Florence

Collection

Date/Time

06:00

09/27/2022

Analysis

Start Date/Time

09/29/2022 08:40

< Less than reporting limit

Lab Number

DC08070-01 Total Hardness [CALC] 09/29/2022 08:40 09/27/2022 06:00 FLY Florence DC08070-01 Antimony EPA 200.7 Rev. 4.4/6010C 09/27/2022 09/29/2022 08:40 FLY Florence 06:00 DC08070-01 Arsenic EPA 200.7 Rev. 4.4/6010C 09/27/2022 06:00 09/29/2022 08:40 FLY Florence DC08070-01 Beryllium EPA 200.7 Rev. 4.4/6010C DC08070-01 FLY Florence 09/27/2022 06:00 09/29/2022 08:40 Cadmium EPA 200.7 Rev. 4.4/6010C 09/29/2022 08:40 FLY Florence 09/27/2022 06:00 DC08070-01 Calcium EPA 200.7 Rev. 4.4/6010C FLY Florence 09/27/2022 06:00 09/29/2022 08:40 DC08070-01 Chromium EPA 200.7 Rev. 4.4/6010C 09/29/2022 08:40 09/27/2022 06:00 DC08070-01 Copper EPA 200.7 Rev. 4.4/6010C FLY Florence 09/27/2022 06:00 09/29/2022 08:40 FLY Florence DC08070-01 Lead EPA 200.7 Rev. 4.4/6010C 09/29/2022 08:40 FLY Florence 09/27/2022 06:00 DC08070-01 Magnesium EPA 200.7 Rev. 4.4/6010C FLY Florence 09/27/2022 06:00 09/29/2022 08:40 DC08070-01 Nickel EPA 200.7 Rev. 4.4/6010C FLY Florence 09/27/2022 06:00 09/29/2022 08:40 DC08070-01 Selenium EPA 200.7 Rev. 4.4/6010C FLY Florence 09/27/2022 06:00 09/29/2022 08:40 DC08070-01 Silver EPA 200.7 Rev. 4.4/6010C FLY Florence 09/27/2022 06:00 09/29/2022 08:40 DC08070-01 Thallium EPA 200.7 Rev. 4.4/6010C FLY 09/27/2022 06:00 09/29/2022 08:40 Florence DC08070-01 Zinc EPA 200.7 Rev. 4.4/6010C

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SAMPLE RESULTS REPORT

Report Date/Time: 10/05/2022 12:18

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Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collection Date/Tin	on ne	Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
DC08070-02	Total Cyanide	ASTM D7511-12	SH	Decatur	09/27/2022	06:52	09/27/2022 09:51	
DC08070-02	Phenolics (4AAP)	EPA 420.1 Rev. 1978	WCC	Florence	09/27/2022	06:52	09/30/2022 08:05	
DC08070-02	Volatile Organic Analytes	EPA 624.1	AGD	Florence	09/27/2022	06:52	10/03/2022 14:00	
DC08070-02	BN/AE Semivolatiles	EPA 625.1	FLY	Florence	09/27/2022	06:52	10/03/2022 08:30	



SOUTHERN ENVIRONMENTAL TESTING ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2919 FAIRGROUND ROAD SW, DECATUR, AL 35603 3103 NORTHINGTON COURT, FLORENCE, AL 35630

PAGE	1	of	1						
Elkmont Rural									
Permit F	Rene	wal							

(256) 350-0846 www.setesting.com

COMPANY	CLIENT NAME			C	LIENT P.O.	NUMBER	PF	OJECT	NUMBER																	
Limesto	ne County W	ater and	d Sewer										REQUESTED ANALYSES													
CLIENT PC	DINT OF CONTACT		0	CLIENT PHYS	SICAL ADDR	ESS	CI	CITY/STATE/ZIP																		
Sam TI	homas			17218 US	5 72		A	thens	, AL 3561	1																
CLIENT EN	MAIL			PHONE NUM	BER OTH	ER INFOR	MATION								8								T			
sthomas	s@lcwsa.com	1	:	256-233-0	6444		P	ermit	Renewa	al				S	U,F	NZ,			_						ł	
SAMPLE C	OLLECTED BY				EXPED	ITED REP	ORT DELIVER	Y (SUR	CHARGE)					В, А	S S	L,			5	20						
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MAR	1070-01	Elkm	ont Rural	Effluent			9-27-2	2	065	2		X	x	X	x	X							\neg			
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SAMF	PLER INFO	SM 4	4500H+B	SM 4500-	-CI G (2011) SM	4500-0 G		SM 255	50B	1		60m	L Am	ber (Glass	NaC	ЭН			CN					
Start Date	0600 9-26	₽H ₽₽∠su	7.54	TRC ma/l	0.0	DO mg/l	9.36	T d	emp ea C		1	1	I Lite	r Aml	ber G	Glass	H2S	04				P	hen	olics	5	
Start	0600	Date	9-27-22	Date	9-27:22	Date	4-17-12	1	Date		3	4	l0ml	Clea	ur Via	als No	ne/l-	ICI					62	4		
Stop	9-27-22	Time	06.52	Time	OBD	Time	0652		Time		2		1	Litor	Amb	or G	lace						62	 5		
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November 18, 2022.

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

Lab ID	Sample Description	Date Collected	Date Submitted
DC09205-01	Elkmont Rural Effluent	11/01/2022	11/01/2022
DC09205-02	Elkmont Rural Effluent	11/01/2022	11/01/2022

This cover page and the attached chain-of-custody record(s) are integral parts of your report. Southern Environmental Testing considers this report your official record. This information shall remain in Southern Environmental Testing's active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call our Decatur facility at (256) 280-2567 or our Florence facility at (256) 740-5532.

6 hargant Aiken

Margaret Aiken Project Manager

Reviewed by:

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 Sam Thomas
 Limestone County Water & Sewer

 17218 US Hwy 72
 Athens, AL 35611

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Sample ID: DC09205-01	Collected:	11/01/2022	Submitted:	11/01/2022
Metals by ICP-OES					
Total Silver		< 0.00125	mg/l		
Total Arsenic		<0.00500	mg/l		
Total Beryllium		<0.00500	mg/l		
Total Calcium		38.2	mg/l		
Total Cadmium		<0.00500	mg/l		
Total Chromium		< 0.00500	mg/l		
Total Copper		< 0.00500	mg/l		
Total Hardness		117	mg/I CaCC	03	
Total Magnesium		5.29	mg/l		
Total Nickel		0.00918	mg/l		
Total Lead		<0.00500	mg/l		
Total Antimony		<0.00500	mg/l		
Total Selenium		< 0.00500	mg/l		
Total Thallium		<0.00500	mg/l		
Total Zinc		0.0151	ing/l		
Sample Point: Elkmont Rural Effluent	Sample ID: DC09205-02	Collected:	11/01/2022	Submitted:	11/01/2022
Inorganics					
Total Cyanide		<0.00500	mg/l		
Phenolics (4AAP)		<0.0200	mg/l		
Volatiles by EPA 624					
Benzene		<1.00	ug/l		
Bromodichloromethane		<1.00	ug/l		
Bromoform		<1.00	ug/l		
Bromomethane		<2.00	ug/l		
Carbon tetrachloride		<2.00	ug/l		
Chlorobenzene		<1.00	ug/l		
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 Athens, AL 35611

Analyte Name		Result	Units	Qualifer	Regulatory Limit	
Sample Point: Elkmont Rural Effluent	Sample ID: DC09205-02	Collected:	11/01/2022	Submitted:	11/01/2022	
Volatiles by EPA 624 (Continued)						
Chloroethane		<1.00	ug/l			
Chloroform		<1.00	ug/l			
Chloromethane		<1.00	ug/l			
Dibromochloromethane		<1.00	ug/l			
1,2-Dichlorobenzene		<1.00	ug/i			
1,3-Dichlorobenzene		<1.00	ug/I			
1,4-Dichlorobenzene		<1.00	ug/l			
1,1-Dichloroethane		<1.00	ug/I			
1,2-Dichloroethane		<1.00	ug/l			
trans-1,2-Dichloroethylene		<1.00	ug/l			
trans-1,3-Dichloropropylene		<2.00	ug/I			
1,2-Dichloropropane		<1.00	ug/I			
cis-1,3-Dichloropropylene		<1.00	ug/i			
Ethyl benzene		<1.00	ug/l			
Methylene chloride		<2.00	ug/l			
1,1,2,2-Tetrachloroethane		<1.00	ug/l			
1,1,1-Trichloroethane		<1.00	ug/l			
1,1,2-Trichloroethane		<1.00	ug/l			
1,1-Dichloroethylene		<1.00	ug/l			
Dichlorodifluoromethane		<1.00	ug/l			
Methyl Ethyi Ketone		<5.00	ug/l			
o-Xylene		<1.00	ug/l			
m & p-Xylene		<2.00	ug/l			
Tetrachloroethylene		<1.00	ug/l			
Tolucne		<1.00	ug/l			
Trichloroethylene		<1.00	ug/l			
Trichlorofluoromethane		<1.00	ug/l			

3103 Northington CourtPO Box 4872919 Fairgrounds Road SWPO Box 2084Florence, AL 35630Florence, AL 35630Decatur, AL 35603Decatur, AL 35603(256) 740-5532(256) 740-5529 Fax(256) 280-2567(256) 350-0686 FaxThe contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. Results are only representative of thePO Box 2084



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 Limestone County Water & Sewer

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 Athens, AL 35611

Analyte Name		Result	Units	Qualifer	Regulatory Limit
ample Point: Elkmont Rural Effluent	Sample ID: DC09205-02	Collected:	11/01/2022	Submitted:	11/01/2022
Volatiles by EPA 624 (Continued)					
Vinyl chloride		<1.00	ug/l		
2-Chloroethylvinyl ether		<1.00	ug/l		
Acrylonitrile		<1.00	ug/l		
Acrolein		<1.00	ug/l		
Acetone		<5.00	ug/l		
Methyl isobutyl ketone		<5.00	ug/l		
Styrene		00.1>	ug/l		
1,2,4-Trichlorobenzene		<1.00	ug/l		

SAMPLE RESULTS REPORT

Report Date/Time: 11/18/2022 10:54

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All calculations are performed prior to rounding per EPA and *Standard Methods* requirements. Calibration data for field analyses conducted by SET or *ENERSOLV* personnel are available upon request.

Data Qualifiers

17218 US Hwy 72 Athens, AL 35611

М

Sample matrix precluded reliable matrix spike/matrix spike duplicate recovery and/or precision. Non-homogeneity of sample or presence of interfering substances may result in spike recoveries outside acceptance limits.

< Less than reporting limit

Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collection Date/Time		Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
DC09205-01	Total Hardness	[CALC]	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Antimony	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Arsenic	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Beryllium	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Cadmium	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Calcium	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Chromium	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Copper	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Lead	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Magnesium	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Nickel	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Selenium	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Silver	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Thaliium	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	
DC09205-01	Zinc	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	11/01/2022	06:00	11/04/2022 10:40	

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SAMPLE RESULTS REPORT

Report Date/Time: 11/18/2022 10:54

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Analysis Information

1

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collection Date/Time		Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
DC09205-02	Total Cyanide	ASTM D7511-12	LLW	Decatur	11/01/2022	09:45	11/02/2022 11:04	
DC09205-02	Phenolics (4AAP)	EPA 420.1 Rev. 1978	WCC	Florence	11/01/2022	09:45	11/04/2022 08:05	
DC09205-02	Volatile Organic Analytes	EPA 624.1	AGD	Florence	11/01/2022	09:45	11/03/2022 12:30	

eurofins

Environment Testing

ANALYTICAL REPORT

Eurofins Pensacola 3355 McLemore Drive Pensacola, FL 32514 Tel: (850)474-1001

Laboratory Job ID: 400-228218-1 Laboratory Sample Delivery Group: DC09205 Client Project/Site: Limestone County Water and Sewer

For:

LINKS ····

Review your project results through

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Ask.

oeri

Southern Environmental Testing 3103 Northington Court Florence, Alabama 35630

Attn: Margaret Aiken

ntmil

Authorized for release by: 11/10/2022 8:53:25 PM

Cheyenne Whitmire, Project Manager II (850)471-6222 Cheyenne.Whitmire@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the {0} Project Manager.

A.

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A CANADA

Job ID: 400-228218-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-228218-1

Receipt

The sample was received on 11/2/2022 9:59 AM. Unless otherwise noted below, the sample arrived in good condition, and whe required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1° C.

GC/MS Semi VOA

Method 625: The continuing calibration verification (CCV) associated with batch 400-599729 recovered above the upper control for Hexachlorobutadiene, Pyrene and Hexachlorobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 625: The laboratory control sample duplicate (LCSD) for preparation batch 400-599682 and analytical batch 400-59972! recovered outside control limits for the following analytes: Pyrene. The analyte was biased high in the LCSD and was not detec in the associated samples; therefore, the data have been reported.

Method 625: The continuing calibration verification (CCV) associated with batch 400-599864 recovered above the upper control for 2,2;-oxybis[1-chloropropane]. The samples associated with this CCV were non-detects for the affected analytes; therefore, tl data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.
Real Concerns

and the second state

Client Sample ID: ELKMONT RURAL EFFLUENT

No Detections.

Lab Sample ID: 400-228218-1

This Detection Summary does not include radiochemical test results.

Client: Southern Environmental Testing Project/Site: Limestone County Water and Sewer

		······································	
Method	Method Description	Protocol	Laboratory
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	EET PEN
625	Liquid-Liquid Extraction	40CFR136A	EET PEN

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

*

Eurofins Pensacola

Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-228218-1	ELKMONT RURAL EFFLUENT	Water	11/01/22 09:45	11/02/22 08:59

7

Client Sample ID: ELKMONT RURAL EFFLUENT Date Collected: 11/01/22 09:45 Date Received: 11/02/22 08:59

Lab Sample ID: 400-228218-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	< 0.0097		0.0097			11/08/22 08:39	11/08/22 17:26	1
Acenaphthylene	< 0.0097		0.0097	ma/L		11/08/22 08:39	11/08/22 17:26	1
Anthracene	< 0.0097		0.0097	ma/L		11/08/22 08:39	11/08/22 17:26	1
Benzidine	< 0.024		0.024	mg/L		11/08/22 08:39	11/08/22 17:26	1
Benzolalanthracene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Benzolalovrene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Benzolb]fluoranthene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Benzola h ilpervlene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Benzolkifluoranthene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Bis(2-chloroethoxy)methane	<0.0007		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Bis(2-chloroethyl)ether	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
2.2' oxybis[1.chloropropaga]	<0.0097		0.0097	mg/L		11/08/22 08:39	11/00/22 17:20	1
Ris(2 othylhoxyl) phthalata	<0.0097		0.0097	mg/L		11/09/22 00:39	11/09/22 17:49	1
A Bromonhonyl phonyl other	<0.0097		0.0097	mg/∟		11/08/22 08:39	11/00/22 17.20	1
4-Bromophenyi phenyi etter	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17.20	1
2 Chloropoptholopo	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17.20	1
	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
4-Chiorophenyi phenyi ether	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Chrysene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Dibenz(a,h)anthracene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
3,3°-Dichlorobenzidine	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
2,4-Dichlorophenol	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Diethyl phthalate	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
2,4-Dimethylphenol	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Dimethyl phthalate	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Di-n-butyl phthalate	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
4,6-Dinitro-2-methylphenol	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
2,4-Dinitrophenol	<0.029		0.029	mg/L		11/08/22 08:39	11/08/22 17:26	1
2,4-Dinitrotoluene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
2,6-Dinitrotoluene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Di-n-octyl phthalate	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
1,2-Diphenylhydrazine (as	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Azobenzene)	.0.0007		0.0007			11/00/00 00 00	44/00/00 47 00	
Fluorantnene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
	<0.0097		0.0097	. mg/L		11/08/22 08:39	11/08/22 17:26	1
Hexachloro-1,3-butadiene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Hexachlorocyclopentadiene	<0.019		0.019	mg/L		11/08/22 08:39	11/09/22 17:49	1
Hexachloroethane	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Isophorone	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Naphthalene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Nitrobenzene	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
2-Nitrophenol	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
4-Nitrophenol	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
N-Nitrosodimethylamine	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
N-Nitrosodi-n-propylamine	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
N-Nitrosodiphenylamine	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
para-Chloro meta-cresol	<0.0097		0.0097	mg/L		11/08/22 08:39	11/08/22 17:26	1
Pentachlorophenol	<0.019		0.019	mg/L		11/08/22 08:39	11/08/22 17:26	1

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Client Sample Results

Client: Southern Environmental Testing Project/Site: Limestone County Water and Sewer

Job ID: 400-228218-1 SDG: DC09205 E

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Client Sample ID: ELKMONT RURAL EFFLUENT Date Collected: 11/01/22 09:45

Date Received: 11/02/22 08:59

Lab Sample ID: 400-228218-1 Matrix: Water

Method: 40CFR136A 625 - Semivolatile Organic Compounds (GC/MS) (Continued) MDL Unit Analyte Result Qualifier RL D Dil Fac Prepared Analyzed Phenanthrene < 0.0097 0.0097 mg/L 11/08/22 08:39 11/08/22 17:26 1 Phenol < 0.0097 0.0097 mg/L 11/08/22 08:39 11/08/22 17:26 1 Pyrene <0.0097 *+ 0.0097 mg/L 11/08/22 08:39 11/08/22 17:26 1 < 0.0097 0.0097 11/08/22 08:39 11/08/22 17:26 1,2,4-Trichlorobenzene mg/L 1 2,4,6-Trichlorophenol <0.0097 0.0097 mg/L 11/08/22 08:39 11/08/22 17:26 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 2-Fluorobiphenyl 11/08/22 08:39 11/08/22 17:26 82 32-109 1 59 11/08/22 08:39 11/08/22 17:26 1 2-Fluorophenol 10 - 104 Nitrobenzene-d5 75 31 - 111 11/08/22 08:39 11/08/22 17:26 1 Phenol-d5 43 10 - 110 11/08/22 08:39 11/08/22 17:26 1 Terphenyl-d14 114 30 - 129 11/08/22 08:39 11/08/22 17:26 1 2,4,6-Tribromophenol 86 15-135 11/08/22 08:39 11/08/22 17:26 1

Definitions/Glossary

Client: Southern Environmental Testing Project/Site: Limestone County Water and Sewer

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Qualifiers

GC/MS S	Semi	VOA
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Qualifier *+

er Qualifier Description LCS and/or LCSD is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probabie Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Southern Environmental Testing Project/Site: Limestone County Water and Sewer

Job ID: 400-228218-1 SDG: DC09205

Lab Sample ID: 400-228218-1

Client Sample ID: ELKMONT RURAL EFFLUENT Date Collected: 11/01/22 09:45

Date Received: 11/02/22 08:59

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	625			257.6 mL	1 mL	599682	11/08/22 08:39	BKL	EET PEN
Total/NA	Analysis	625		1	0.4 mL	0.4 mL	599864	11/09/22 17:49	S1B	EET PEN
Total/NA	Prep	625			257.6 mL	1 mL	599682	11/08/22 08:39	BKL	EET PEN
Total/NA	Analysis	625		1	0.4 mL	0.4 mL	599729	11/08/22 17:26	S1B	EET PEN

Laboratory References:

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Matrix: Water

Eurofins Pensacola

QC Association Summary

Client: Southern Environmental Testing Project/Site: Limestone County Water and Sewer

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GC/MS Semi VOA

Prep	Batch:	599682
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228218-1	ELKMONT RURAL EFFLUENT	Total/NA	Water	625	
MB 400-599682/1-A	Method Blank	Total/NA	Water	625	
LCS 400-599682/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 400-599682/3-A	Lab Control Sample Dup	Total/NA	Water	625	
Analysis Batch: 5997	29				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
400-228218-1	ELKMONT RURAL EFFLUENT	Total/NA	Water	625	599682
MB 400-599682/1-A	Method Blank	Total/NA	Water	625	599682
LCS 400-599682/2-A	Lab Control Sample	Total/NA	Water	625	599682
LCSD 400-599682/3-A	Lab Control Sample Dup	Total/NA	Water	625	599682
Analysis Batch: 5998	64				
Lab Sample ID	Client Sample ID	Ргер ⊺уре	Matrix	Method	Prep Batch
400-228218-1	ELKMONT RURAL EFFLUENT	Total/NA	Water	625	599682
MB 400-599682/1-A	Method Blank	Total/NA	Water	625	599682

Prep Type: Total/NA Prep Batch: 599682 CALCULATION OF A

No. of Lot

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Client Sample ID: Method Blank

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-599682/1-A
Matrix: Water
Analysis Batch: 599729

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Acenaphthylene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Anthracene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Benzidine	<0.025		0.025		mg/L		11/08/22 08:38	11/08/22 16:20	1
Benzo[a]anthracene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Benzo[a]pyrene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Benzo[b]fluoranthene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Benzo[g,h,i]perylene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Benzo[k]fluoranthene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Bis(2-chloroethoxy)methane	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Bis(2-chloroethyl)ether	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Bis(2-ethylhexyl) phthalate	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
4-Bromophenyl phenyl ether	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Butyl benzyl phthalate	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
2-Chloronaphthalene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
2-Chlorophenol	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
4-Chlorophenyl phenyl ether	<0.010		0.010		ma/L		11/08/22 08:38	11/08/22 16:20	1
Chrvsene	< 0.010		0.010		ma/L		11/08/22 08:38	11/08/22 16:20	1
Dibenz(a,h)anthracene	< 0.010		0.010		ma/L		11/08/22 08:38	11/08/22 16:20	1
3.3'-Dichlorobenzidine	<0.010		0.010		ma/L		11/08/22 08:38	11/08/22 16:20	1
2 4-Dichlorophenol	<0.010		0.010		ma/L		11/08/22 08:38	11/08/22 16:20	1
Diethyl obthalate	<0.010		0.010		ma/L		11/08/22 08:38	11/08/22 16:20	1
2 4-Dimethylphenol	<0.010		0.010		ma/l		11/08/22 08:38	11/08/22 16:20	1
Dimethyl obthalate	<0.010		0.010		ma/l		11/08/22 08:38	11/08/22 16:20	1
Di-n-butyl phthalate	<0.010		0.010		ma/l		11/08/22 08:38	11/08/22 16:20	1
4 6-Dipitro-2-methylphenol	<0.010		0.010		ma/i		11/08/22 08:38	11/08/22 16:20	1
2 4-Dinitrophenol	<0.030		0.030		ma/L		11/08/22 08:38	11/08/22 16:20	1
2 4-Dinitrotoluene	<0.010		0.010		mo/L		11/08/22 08:38	11/08/22 16:20	1
2.6-Dinitrotoluene	<0.010		0.010		ma/L		11/08/22 08:38	11/08/22 16:20	1
Di-n-octyl phthalate	<0.010		0.010		ma/L		11/08/22 08:38	11/08/22 16:20	1
1.2-Dinbenylbydrazine (as	<0.010		0.010		ma/L		11/08/22 08:38	11/08/22 16:20	1
Azobenzene)	01010		01010						
Fluoranthene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Fluorene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Hexachlorobenzene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Hexachloro-1,3-butadiene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Hexachloroethane	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Indeno[1,2,3-cd]pyrene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Isophorone	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Naphthalene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Nitrobenzene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
2-Nitrophenol	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
4-Nitrophenol	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
N-Nitrosodimethylamine	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
N-Nitrosodi-n-propylamine	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
N-Nitrosodiphenylamine	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
para-Chloro meta-cresol	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
Pentachlorophenol	<0.020		0.020		mg/L		11/08/22 08:38	11/08/22 16:20	1
Phenanthrene	<0.010		0.010		mg/L		11/08/22 08:38	11/08/22 16:20	1
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Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-599 Matrix: Water	9682/1-A						Cli	ent Samp	le ID: Method Prep Type: To Prep Batch:	l Blank otal/NA
Analysis Batch: 599729	MD	MD							Frep Batch.	399002
	MB	MB					_ ,	S	A market and a	
Analyte	Result	Qualifier		WDL				-repared	Analyzed	DIFAC
Phenol	<0.010		0.010		mg/L		11/	08/22 08:38	11/08/22 16:20	1
Pyrene	<0.010		0.010		mg/L		11/	08/22 08:38	11/08/22 16:20	1
1,2,4-Trichlorobenzene	<0.010		0.010		mg/L		11/	08/22 08:38	11/08/22 16:20	1
2,4,6-Trichlorophenol	<0.010		0.010		mg/L		11/	08/22 08:38	11/08/22 16:20	1
a 1 1	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				,	Prepared	Analyzed	Dil Fac
2-Eluorobinhenvl		duamer	32 - 109				11/	08/22 08:38	11/08/22 16:20	1
2-Eluorophenol	59		10 - 104				11/	08/22 08:38	11/08/22 16:20	1
Nitrobenzene-d5	75		31 - 111				11/	08/22 08:38	11/08/22 16:20	1
Phenol-d5	42		10_110				11/	08/22 08:38	11/08/22 16:20	1
Terobenyl-d14	110		30 129				11/	08/22 08.38	11/08/22 16:20	1
2.4.6 Tribromonhonol	74		15 135				11/	08/22 00.00	11/08/22 16:20	1
2,4,0-11010110011001101	74		10-100				11/	00/22 00.30	11/00/22 10.20	,
Lab Sample ID: MB 400-59	9682/1-A						Cli	ent Samp	le ID: Method	Blank
Matrix: Water									Prep Type: To	otal/NA
Analysis Batch: 599864									Prep Batch:	599682
Analysis Baten. 555004	MB	MB							Trop Batom	000001
Analyte	Result	Qualifier	RI	МО	Unit		וח	Prenared	Analyzed	Dil Fac
2 2'-oxybis[1-chloropropage]	<0.010		0.010				11/	08/22 08:38	11/09/22 16:46	1
Hexachlorocyclopentadiene	<0.010		0.020		ma/l		11/	08/22 08.38	11/09/22 16:46	1
	\$0.020		0.020		ilig/L		117	00/22 00.00	11/03/22 10.40	'
I ah Sample ID: 1 CS 400-59	00682/2-A					Clie	nt Sa	mole ID.	Lab Control S	Sample
	5500Z/Z-A		•			Olle		imple ib.		Jumpic
Matrix: Water	55002/2-A		·			one			Prep Type: To	otal/NA
Matrix: Water Analysis Batch: 599729	5500212-4					one		inpic ib.	Prep Type: To Prep Batch:	otal/NA 599682
Matrix: Water Analysis Batch: 599729	55002/2-74		Spike	LCS LC	s	One		inpic ib:	Prep Type: To Prep Batch: %Rec	otal/NA 599682
Matrix: Water Analysis Batch: 599729			Spike Added	LCS LC Result Qu	S ualifier	Unit	<u>D</u>	%Rec	Prep Type: To Prep Batch: %Rec Limits	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene			Spike Added 0.120	LCS LC Result Qu	S Jalifier	Unit mg/L	<u>D</u>	<u>%Rec</u> 83	Prep Type: To Prep Batch: %Rec Limits 47 - 145	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene			Spike Added 0.120 0.120	LCS LC Result Qu 0.0996 0.104	S Jalifier	Unit mg/L mg/L	<u>D</u>	%Rec 83 86	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene			Spike Added 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105	CS Jalifier	Unit mg/L mg/L mg/L	<u>D</u>	%Rec 83 86 88	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzidine			Spike Added 0.120 0.120 0.120 0.240	LCS LC Result Qu 0.0996 0.104 0.105 0.0314	S Jalifier	Unit mg/L mg/L mg/L mg/L	<u>D</u>	%Rec 83 86 88 13	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159	599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzidine Benzo[a]anthracene			Spike Added 0.120 0.120 0.120 0.240 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102	S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L	<u>D</u>	%Rec 83 86 88 13 85	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzidine Benzo[a]anthracene Benzo[a]pyrene			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103	S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L	<u>D</u>	%Rec 83 86 88 13 85 86	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzidine Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105	S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	%Rec 83 86 88 13 85 86 87	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzidine Benzo[a]anthracene Benzo[b]fluoranthene Benzo[g,h,i]perylene			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933	CS Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	%Rec 83 86 88 13 85 86 87 78	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962	S ualifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	%Rec 83 86 88 13 85 86 87 78 80	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzidine Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860	S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	%Rec 83 86 88 13 85 86 87 78 80 72	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether			Spike Added 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697	2S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether 2,2'-oxybis[1-chloropropane]			Spike Added 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728	2S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166	
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether 2,2'-oxybis[1-chloropropane] Bis(2-ethylhexyl) phthalate			Spike Added 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115	CS ualifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158	
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethoxyl)ether 2,2'-oxybis[1-chloropropane] Bis(2-ethylhexyl) phthalate 4-Bromophenyl phenyl ether			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110	S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzolajanthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloropthyl)ether 2,2'-oxybis[1-chloropropane] Bis(2-ethylhexyl) phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate			Spike Added 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117	S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzidine Benzo[a]anthracene Benzo[a]anthracene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloropropane] Bis(2-ethylhexyl) phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate 2-Chloronaphthalene			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942	CS Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	D	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzidine Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloropthyl)ether 2,2'-oxybis[1-chloropropane] Bis(2-ethylhexyl) phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate 2-Chloroaphthalene 2-Chlorophenol			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942 0.0937	CS Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	D	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78 78 78	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118 23 - 134	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzolajanthracene Benzolajanthracene Benzolajoyrene Benzolajpyrene Bis(2-chloroethoxy)methane Bis(2-ethylhexyl) phthalate <td></td> <td></td> <td>Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120</td> <td>LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942 0.0937 0.109</td> <td>S Jalifier</td> <td>Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L</td> <td> <u>P</u></td> <td>%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78 78 78 91</td> <td>Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118 23 - 134 25 - 158</td> <td>otal/NA 599682</td>			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942 0.0937 0.109	S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78 78 78 91	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118 23 - 134 25 - 158	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzolajanthracene Benzo[ajanthracene Benzo[ajanthracene Benzo[ajpyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether 2,2'-oxybis[1-chloropropane] Bis(2-ethylhexyl) phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate 2-Chlorophenol 4-Chlorophenol 4-Chlorophenyl phenyl ether Chrysene			Spike Added 0.120 0.120 0.120 0.240 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942 0.0937 0.109 0.101	CS Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78 78 78 91 84	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118 23 - 134 25 - 158 17 - 168	otal/NA 599682
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzolajanthracene Benzolajanthracene Benzolajerrene Bis(2-chloroethoxy)methane Bis(2-ethylhexyl) phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether Chrysene Dibenz(a,h)anthracene <td></td> <td></td> <td>Spike Added 0.120 0.120 0.120 0.240 0.120</td> <td>LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942 0.0937 0.109 0.101 0.0884</td> <td>2S ualifier</td> <td>Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L</td> <td> <u>P</u></td> <td>%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78 78 91 84 74</td> <td>Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118 23 - 134 25 - 158 17 - 168 10 - 227</td> <td></td>			Spike Added 0.120 0.120 0.120 0.240 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942 0.0937 0.109 0.101 0.0884	2S ualifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78 78 91 84 74	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118 23 - 134 25 - 158 17 - 168 10 - 227	
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethoxy)methalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether Chrysene Dibenz(a,h)anthracene 3.3'-Dichlorobenzidine			Spike Added 0.120 0.120 0.120 0.240 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.105 0.0933 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942 0.0937 0.109 0.101 0.0884 0.180	2S palifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78 78 91 84 74 75	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118 23 - 134 25 - 158 17 - 168 10 - 227 10 - 262	
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzo[a]anthracene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethoxy)methalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate 2-Chlorophenol 4-Chlorophenol 4-Chlorophenyl phenyl ether Dibenz(a,h)anthracene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol			Spike Added 0.120 0.120 0.120 0.240 0.120	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942 0.0937 0.109 0.101 0.0884 0.180 0.107	2S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78 78 91 84 74 75 90	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118 23 - 134 25 - 158 17 - 168 10 - 227 10 - 262 39 - 135	
Matrix: Water Analysis Batch: 599729 Analyte Acenaphthene Acenaphthylene Anthracene Benzolajanthracene Benzolajanthracene Benzolajorene Bis(2-chloroethoxy)methane Bis(2-chlorophenyl phenyl ether Butyl benzyl phthalate 2-Chlorophenol 4-Chlorophenol 4-Chlorophenol 4-Chlorophenol 2,4-Dichlorophenol 2,4-Dichlorophenol Diethyl phthalate			Spike Added 0.120 0.120 0.240 0.120 0.	LCS LC Result Qu 0.0996 0.104 0.105 0.0314 0.102 0.103 0.0962 0.0860 0.0697 0.0728 0.115 0.110 0.117 0.0942 0.0937 0.109 0.101 0.0984 0.180 0.107 0.108	2S Jalifier	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>P</u>	%Rec 83 86 88 13 85 86 87 78 80 72 58 61 96 92 97 78 78 78 91 84 74 75 90 90	Prep Type: To Prep Batch: %Rec Limits 47 - 145 33 - 145 27 - 133 10 - 159 33 - 143 17 - 163 24 - 159 10 - 219 11 - 162 33 - 184 12 - 158 36 - 166 8 - 158 53 - 127 1 - 152 60 - 118 23 - 134 25 - 158 17 - 168 10 - 227 10 - 262 39 - 135 10 - 114	

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Client: Southern Environmental Testing Project/Site: Limestone County Water and Sewer

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Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-599682/2-A Matrix: Water Analysis Batch: 599729				Clie	nt Sa	mple ID	Lab Control Prep Type: Prep Batch:	Sample Fotal/NA : 599682
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2,4-Dimethylphenol	0.120	0.0884		mg/L		74	32 - 119	
Dimethyl phthalate	0.120	0.104		mg/L		87	10 - 112	
Di-n-butyl phthalate	0.120	0.105		mg/L		88	1 - 118	
4,6-Dinitro-2-methylphenol	0.240	0.232		mg/L		97	10 - 181	
2,4-Dinitrophenol	0.240	0.197		mg/L		82	30 - 191	
2,4-Dinitrotoluene	0.120	0.109		mg/L		91	39 - 139	
2,6-Dinitrotoluene	0.120	0.0996		mg/L		83	50 - 158	
Di-n-octyl phthalate	0.120	0.108		mg/L		90	4 - 146	
1,2-Diphenylhydrazine (as	0.120	0.0849		mg/L		71	50 - 150	
Azobenzene)								
Fluoranthene	0.120	0.113		mg/L		94	26 - 137	
Fluorene	0.120	0.107		mg/L		90	59 - 121	
Hexachlorobenzene	0.120	0.120		mg/L		100	10 - 152	
Hexachloro-1,3-butadiene	0.120	0.0942		mg/L		78	24 - 116	
Hexachlorocyclopentadiene	0.120	0.0676		mg/L		56	1 - 122	
Hexachloroethane	0.120	0.0770		mg/L		64	40 - 113	
Indeno[1,2,3-cd]pyrene	0.120	0.0894		mg/L		75	10 - 171	
Isophorone	0.120	0.0900		mg/L		75	21 - 196	
Naphthalene	0.120	0.0905		mg/L		75	21 - 133	
Nitrobenzene	0.120	0.0861		mg/L		72	35 - 180	
2-Nitrophenol	0.120	0.0978		mg/L		82	29 - 182	
4-Nitrophenol	0.240	0.174		mg/L		73	10 - 132	
N-Nitrosodimethylamine	0.120	0.0681		mg/L		57	38 - 104	
N-Nitrosodi-n-propylamine	0.120	0.0906		mg/L		76	10_230	
N-Nitrosodiphenylamine	0.119	0.0948		mg/L		80	58 - 120	
para-Chloro meta-cresol	0.120	0.113		mg/L		94	22 - 147	
Pentachlorophenol	0.240	0.226		mg/L		94	14 - 176	
Phenanthrene	0.120	0.103		mg/L		85	54 - 120	
Phenol	0.120	0.0656		mg/L		55	5 - 112	
Pyrene	0.120	0.122		mg/L		101	52 - 115	
1,2,4-Trichlorobenzene	0.120	0.0921		mg/L		77	44 - 142	
2,4,6-Trichlorophenol	0.120	0.0983		mg/L		82	37 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	77		32 - 109
2-Fluorophenol	62		10 - 104
Nitrobenzene-d5	76		31 - 111
Phenol-d5	52		10 - 110
Terphenyl-d14	98		30-129
2,4,6-Tribromophenol	99		15 - 135

Lab Sample ID: LCSD 400-599682/3-A Matrix: Water

						Ргер Ба	iich: 5	99002
Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.120	0.122		mg/L		102	47 - 145	20	30
0.120	0.128		mg/L		107	33 - 145	21	,30
0.120	0.131		mg/L		109	27 - 133	21	30
	Spike Added 0.120 0.120 0.120	Spike LCSD Added Result 0.120 0.122 0.120 0.128 0.120 0.131	Spike LCSD LCSD Added Result Qualifier 0.120 0.122	SpikeLCSDLCSDAddedResultQualifierUnit0.1200.122mg/L0.1200.128mg/L0.1200.131mg/L	SpikeLCSDLCSDAddedResultQualifierUnitD0.1200.122mg/Lmg/L0.1200.128mg/L0.1200.131mg/L	Spike LCSD LCSD Added Result Qualifier Unit D %Rec 0.120 0.122 mg/L 102 0.120 0.128 mg/L 107 0.120 0.131 mg/L 109	Spike LCSD LCSD %Rec Added Result Qualifier Unit D %Rec 0.120 0.122 mg/L 102 47 - 145 0.120 0.128 mg/L 107 33 - 145 0.120 0.131 mg/L 109 27 - 133	Spike LCSD LCSD Wrep Batch: 5s Added Result Qualifier Unit D %Rec %Rec 0.120 0.122 mg/L 102 47 - 145 20 0.120 0.128 mg/L 107 33 - 145 21 0.120 0.131 mg/L 109 27 - 133 21

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Prep Type: Total/NA

Dura Datales COOCOO

Client Sample ID: Lab Control Sample Dup

QC Sample Results

Client: Southern Environmental Testing Project/Site: Limestone County Water and Sewer

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Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-599682/3-A			С	lient Sa	mple l	D: Lab	Control	Sample	Dup 📱
Matrix: Water							Prep Ty	pe: Tot	al/NA
Analysis Batch: 599729							Prep Ba	tch: 59	9682 📱
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit 📕
Benzidine	0.240	0.0412		mg/L		17	10 - 159	27	30
Benzo[a]anthracene	0.120	0.128		mg/L		106	33 - 143	22	30
Benzo[a]pyrene	0.120	0.133		mg/L		110	17 - 163	25	30
Benzo[b]fluoranthene	0.120	0.134		mg/L		112	24 - 159	25	30
Benzo[g,h,i]perylene	0.120	0.118		mg/L		98	10_219	23	30
Benzo[k]fluoranthene	0.120	0.126		mg/L		105	11 - 162	27	30
Bis(2-chloroethoxy)methane	0.120	0.105		mg/L		88	33 - 184	20	30
Bis(2-chloroethyl)ether	0.120	0.0866		mg/L		72	12 - 158	22	30
2,2'-oxybis[1-chloropropane]	0.120	0.0895		mg/L		75	36 - 166	21	30
Bis(2-ethylhexyl) phthalate	0.120	0.146		mg/L		122	8 - 158	24	30
4-Bromophenyl phenyl ether	0.120	0.138		mg/L		115	53 - 127	22	30
Butyl benzyl phthalate	0.120	0.146		mg/L		122	1 - 152	23	30
2-Chloronaphthalene	0.120	0.115		mg/L		96	60 - 118	20	30 🖁
2-Chlorophenol	0.120	0.114		mg/L		95	23 - 134	20	30
4-Chlorophenyl phenyl ether	0.120	0.135		mg/L		112	25 - 158	21	30
Chrysene	0.120	0.128		mg/L		107	17 - 168	23	30
Dibenz(a,h)anthracene	0.120	0.108		mg/L		90	10 - 227	20	30
3,3'-Dichlorobenzidine	0.240	0.215		mg/L		90	10 - 262	18	30
2.4-Dichlorophenol	0.120	0.130		mg/L		108	39 - 135	19	30
Diethyl phthalate	0.120	0.133		mg/L		111	10 - 114	20	30
2.4-Dimethylphenol	0.120	0.107		mg/L		89	32 - 119	19	30
Dimethyl phthalate	0.120	0.129		mg/L		107	10 - 112	21	30
Di-n-butyl phthalate	0.120	0.130		mg/L		108	1 - 118	21	30
4,6-Dinitro-2-methylphenol	0.240	0.288		mg/L		120	10 - 181	22	30
2,4-Dinitrophenol	0.240	0.251		mg/L		105	30 - 191	24	30
2,4-Dinitrotoluene	0.120	0.136		mg/L		113	39 - 139	22	30
2,6-Dinitrotoluene	0.120	0.124		mg/L		103	50 - 158	22	30
Di-n-octyl phthalate	0.120	0.136		mg/L		113	4 - 146	23	30
1.2-Diphenylhydrazine (as	0.120	0.105		mg/L		88	50 - 150	21	30
Azobenzene)				•					
Fluoranthene	0.120	0.140		mg/L		1 16	26 - 137	21	30
Fluorene	0.120	0.132		mg/L		110	59 - 121	21	30
Hexachlorobenzene	0.120	0.151		mg/L		126	10 - 152	23	30
Hexachloro-1,3-butadiene	0.120	0.115		mg/L		96	24 - 116	20	30
Hexachlorocyclopentadiene	0.120	0.0848		mg/L		71	1 - 122	23	30
Hexachloroethane	0.120	0.0938		mg/L		78	40 - 113	20	30
Indeno[1,2,3-cd]pyrene	0.120	0.113		mg/L		94	10-171	23	30
Isophorone	0.120	0.110		mg/L		91	21 - 196	20	30
Naphthalene	0.120	0.110		mg/L		91	21 - 133	19	30
Nitrobenzene	0.120	0.106		mg/L		88	35 - 180	20	30
2-Nitrophenol	0.120	0.124		mg/L		103	29 - 182	24	30
4-Nitrophenol	0.240	0.203		mg/L		84	10 - 132	15	30
N-Nitrosodimethylamine	0.120	0.0729		mg/L		61	38 - 104	7	30
N-Nitrosodi-n-propylamine	0.120	0.110		mg/L		92	10 - 230	19	30
N-Nitrosodiphenylamine	0.119	0.119		mg/L		100	58 - 120	23	30
para-Chloro meta-cresol	0.120	0.137		mg/L		114	22 - 147	19	30
Pentachlorophenol	0.240	0.284		mg/L		118	14 - 176	23	30
Phenanthrene	0.120	0.127		mg/L		106	54 - 120	21	30
Phenol	0.120	0.0731		mg/L		61	5 - 112	11	30

Eurofins Pensacola

Client: Southern Environmental Testing Project/Site: Limestone County Water and Sewer

100 A And the set of the

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400 Matrix: Water Analysis Batch: 599729	-599682/3-A		Snike	LCSD		Client Sa	ample	ID: Lat	D Control Prep Ty Prep Ba %Rec	Sample pe: Tot atch: 59	e Dup al/NA 99682 8PD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Pyrene			0.120	0.152	*+	mg/L		127	52 - 115	22	30
1,2,4-Trichlorobenzene			0.120	0.112		mg/L		93	44 - 142	19	30
2,4,6-Trichlorophenol			0.120	0.122		mg/L		102	37 - 144	22	30
	1.000	1000									
Surrogata	«Recovery	Qualifiar	Limite								
2 Eluprohishopul	70Recovery	Quanner	22 100								ę
2-Fluoropipnenyi	91		32 - 109								
2-Fluorophenol	69		10 - 104								
Nitrobenzene-d5	91		31 - 111								
Phenol-d5	56		10_110								
Terphenyl-d14	115		30 - 129								Į.
2,4,6-Tribromophenol	113		15 - 135								
											1

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	. 91		32 - 109
2-Fluorophenol	69		10-104
Nitrobenzene-d5	91		31 - 111
Phenol-d5	56		10 - 110
Terphenyl-d14	115		30 - 129
2.4.6-Tribromophenol	113		15 - 135

Eurofins Pensacola

Jfins TestAmerica, Pensacola

Chain of Custody Record

eurofins

3355 McLemore Drive Pensacola, FL 32514

Phone (850) 474-1001 Fax (850) 478-2671																			
Client Information	Sampler:	Sampler: Lab PM: Whitmire,					eyenne	e R				Carrie	er Tracki	ng No(s)	No(s): COC No: 400-95882-				21.1
Client Contact: Margaret Aiken	Phone: 256-280-2569			E-Ma Che	ail: eyeni	ne.W	hitmire	@Eur	ofinse	t.com							Page: Page 1 of	f 1	
Company: Southern Environmental Testing	_1			!	Analysis Requested								Job #:						
Address:	Due Date Request	ed:			\uparrow												Preservati	ion Cor	des:
2919 Fairgrounds Road SW City:	TAT Requested (d	avs):															A - HCL B - NaOH		M - Hexane N - None
Decatur		RUS	н				ĺ							ļ			C - Zn Ace	tate	O - AsNaO2
State, Zip: AL, 35603								Ì									E - NaHSO F - MeOH	4	Q - Na2SO3 R - Na2S2O3
256-280-2569	Po#: Purchase Order	r not require	d														G - Amchlo H - Ascorbi	r ic Acid	S - H2SO4 T - TSP Dodecahydrate
Email:	WO #:				٦ž	() ()											I - Ice J - DI Wate	er	U - Acetone V - MCAA
Project Name:	Project #:				- ^χ θζ	N N										Inen	K - EDTA L - EDA		W - pH 4-5 Z - other (specify)
Site	SSOW#				- 8	Yes	Ì			Ì						onta	Other:		
Limestone County Water and Sewer	33000#.				Sam	1SD	ក្ត									olo			
			Sample	Matrix	ered	MB/I	ξ									mbe			
		0	Type	(₩≈water, S=solid,	Ē	E	۲ ۲									N I			
Sample Identification	Sample Date	Time	G=grab)	O=waste/oll, T≈Tissue, A=Alr) Ĕ	Per	625									Totz	Sp	ecial Ir	nstructions/Note:
	\geq	\geq	Preservat	ion Code:	\boxtimes	Х				_									
Elkmont Rura IEffluent	11/1/22	0945	G	w			x				_					2	DC09205-	01	
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Please see attached list**												ı							
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Possible Hazard Identification		1			Ц	Sam	nole Dis	sposa		fee mi	av be	asses	sed if	samol	es are	retain	ed longer	than 1	I month)
X Non-Hazard Flammable Skin Irritant Po	ison B 🛄 Unkn	own	Radiological				Retu	rn To	Client		x	Dispo	sal By	Lab			ive For		Months
Deliverable Requested: I, II, III_IV, Other (specify)						Spe	cial Inst	tructio	ns/QC	C Req	uirem	ents:							
Empty Kit Relinguished by:		Date:			Tir	me:							Method	of Shipr	nent:				
Relinquished by	Date/Time:	7 110	(90)	Company	- -	F	Received	by:						Date	/Time:				Company
Relinquished by:	Date/Time:	L	<u> </u>	Company		F	Received	Δ ΛΛΛ	n M	MAN.	Date/Time:				n V.Ca			Company	
Relinquished by:	Date/Time:			Company	Recei			by:	, ,,		<u>≻</u> ۲			Date	/Time:	<u>d-</u>	71.24		Company
Custody Seals Intact: Custody Seal No.:	L						Cooler Te	empera	ture(s)	°C and	Other	Remarks	s: /	7.1	о ·	+0	9		
													1.	/4		1	1		

Login Sample Receipt Checklist

Client: Southern Environmental Testing

Login Number: 228218 List Number: 1 Creator: Whitley, Adrian

Answer	Comment
N/A	
N/A	
N/A	
True	
True	
True	
True	0.1°C IR9
True	
N/A	
True	
N/A	
True	
True	
N/A	
	Answer N/A N/A N/A True True True True True True True True

Job Number: 400-228218-1 SDG Number: DC09205

List Source: Eurofins Pensacola

Accreditation/Certification Summary

Client: Southern Environmental Testing Project/Site: Limestone County Water and Sewer

Job ID: 400-228218-1 SDG: DC09205

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date				
Alabama	State	40150	06-30-23				
ANAB	ISO/IEC 17025	L2471	02-23-23				
Arkansas DEQ	State	88-0689	09-01-23				
California	State	2510	06-30-23				
Florida	NELAP	E81010	06-30-23				
Georgia	State	E81010(FL)	06-30-23				
Illinois	NELAP	200041	10-09-23				
Kansas	NELAP	E-10253	10-31-23				
Kentucky (UST)	State	53	06-30-23				
Kentucky (WW)	State	KY98030	12-31-22				
Louisiana (All)	NELAP	30976	06-30-23				
Louisiana (DW)	State	LA017	12-31-22				
Maryland	State	233	09-30-23				
Michigan	State	9912	06-30-23				
North Carolina (WW/SW)	State	314	12-31-22				
Oklahoma	NELAP	9810	08-31-23				
Pennsylvania	NELAP	68-00467	01-31-23				
South Carolina	State	96026	06-30-23				
Tennessee	State	TN02907	06-30-23				
Texas	NELAP	T104704286	09-30-23				
US Fish & Wildlife	US Federal Programs	A22340	06-30-23				
USDA	US Federal Programs	P330-21-00056	05-17-24				
Virginia	NELAP	460166	06-14-23				
West Virginia DEP	State	136	03-31-23				



SOUTHERN ENVIRONMENTAL TESTING ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2919 FAIRGROUND ROAD SW, DECATUR, AL 35603 3103 NORTHINGTON COURT, FLORENCE, AL 35630

PAGE	1	of	1
Elkmor	nt Rura	1	
Permit F	Renew	al	

(256) 350-0846 www.setesting.com

COMPANY	Y/CLIENT NAME		1	CL	ENT P.O. M	NUMBER	PROJ	ECT NUMBE	R]									****			
Limesto	one County W	ater and	Sewer									REQUESTED ANALYSES												
CLIENT PO	OINT OF CONTACT		CI	LIENT PHYSI	CAL ADDR	ESS	CITY/S	STATE/ZIP				1	*****	****	*****							-		
Sam T	homas		1	7218 US	72		Athe	ns, AL 3	5611															
CLIENTEN	MAIL		Pł	HONE NUMB	ER OTH	ER INFOR	MATION							PB	z									
sthoma	is@lcwsa.com		2	56-233-6	444		Peri	nit Rene	ewal				AS	Ľ,	Ň			A	U					
SAMPLE C	COLLECTED BY				EXPEDI	TED REPO	ORT DELIVERY (S	URCHARGE)			6	B	R,	I,		S	12	1 2(
5	am Thomas				DATE D	UE (REQU	IRED)					es	ິບິ	U C	AG		olic	orn	orn					
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LA	BNUMBER		SAMPLE	E DESCRI	PTION		DATE		TIME	GRAB	COMP	Ha	CA	BE	Ĵ,	UN CN	ЪЧ	62	62					
Mho	17/15-01	Elkmo	ont Rural E	ffluent			11-1-22	0	945		X	X	X	X	X									
	- (7)	Elkmo	ont Rural F	ffluent			11-1-22		0)945	X	1					х	x	X	X					
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Comm	lents.																							
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со	MPOSITE			· · · · · · · · · · · · · · · · · · ·	FIELD IN	VFORM	ATION			Qty	<u> / </u>		Тур)e - C	:0016)c			рН	ļ	Pa	ram	eters	5
SAM	PLER INFO	SM 4	500H+B	SM 4500-0	CI G (2011)) SM	4500-O G	SM	2550B	1		60mL Amber Glass NaOH				C			CN	ł				
Start Date	10-31-22	pH su	7.00	TRC mg/l	N/A	DÔ mg/l	8.71	Temp deg C	180	1		1 Liter Amber Glass H2SO4								Phenolics				
Start Time	0600	Date	11-1-22	Date]	Date	13-1-22	Date	11-1-22	3		40mL	Clea	ar Via	als No	one/ł	HCL					624	4	
Stop Date	11-1-22	Time	0945	Time		Time	0945	Time	0945	2	a guarda a su	1	Liter	r Aml	ber G	lass						62	5	5-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Stop Time	0600	Analyst	S. Thomas	Analyst		Analyst	S. Thomas	Analyst	S.Thom	u 1		2	50ml	L HD	PE H	IN03						Meta	als	

RELINQUIS	HED BY: (SIGNATURE)	DATE	TIME	RE	ELINQUISHE	ED BY: (SIGNATURE)	DATE		TIME			RELIN	QUISF	ED BY	: (SIGI	NATUR	E)		ATE		Т	IME
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		a ⁵)											S	ET-00	1-FLD	REV	0		
N. H. W.	/																							



October 26, 2022

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

Lab ID	Sample Description	Date Collected	Date Submitted
DC08828-01	Elkmont Rural Effluent	10/19/2022	10/19/2022
DC08828-02	Elkmont Rural Effluent	10/19/2022	10/19/2022

This cover page and the attached chain-of-custody record(s) are integral parts of your report. Southern Environmental Testing considers this report your official record. This information shall remain in Southern Environmental Testing's active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call our Decatur facility at (256) 280-2567 or our Florence facility at (256) 740-5532.

Thargant Stiken

Margaret Aiken Project Manager

Reviewed by:

3103 Northington Court Florence, AL 35630 (256) 740-5532 PO Box 487 Florence, AL 35630 (256) 740-5529 Fax 2919 Fairgrounds Road SW Decatur, AL 35603 (256) 280-2567 PO Box 2084 Decatur, AL 35602 (256) 350-0686 Fax



SAMPLE RESULTS REPORT

Report Date/Time: 10/26/2022 15:55

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611 This report may contain information that is confidential and or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of Southern Environmental festing.

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Sample ID: DC08828-01	Collected:	10/19/2022	Submitted:	10/19/2022
Metals by ICP-OES					
Total Silver		< 0.00125	mg l		
Total Arsenic		<0.00500	mgʻl		
Total Beryllium		<0.00500	mgʻl		
Total Calcium		39.1	mg 4		
Total Cadmium		<0.00500	mg l		
Total Chromium		<0.00500	mg l		
Total Copper		<0.00500	mg l		
Total Hardness		121	mg/l CaCO.	3	
Total Magnesium		5.56	mgʻl		
Total Nickel		0.00848	mgʻl		
Total Lead		<0.00500	mg l		
Total Antimony		< 0.00500	mg l		
Fotal Selenium		<0.00500	mg 1		
Total Thallium		<0.00500	mg l		
Total Zine		0.0152	mg/l		
Sample Point: Elkmont Rural Effluent	Sample ID: DC08828-02	2 Collected:	10/19/2022	Submitted:	10/19/2022
Inorganics					
Total Cyanide		<0.00500	mg l		
Phenolics (4AAP)		~-0.0200	mg l		
Semivolatiles by EPA 625					
N-Nitrosodimethylamine		<2.00	ug. l		
Phenol		<2.00	ug l		
Bis(2-chloroethyl)ether		<2.00	ug. l		
2-Chlorophenol		<2.00	ugal		
Bis(2-chloroisopropyl)ether		<2.00	ug·l		
N-N(trosodi-n-propylamine		<2.00	ug/l		
3103 Northington Court Florence, AL 35630 (256) 740-5532	PO Box 487 Florence, AL 35630 (256) 740-5529 Fax	2919 Fairground Decatur, AL 356 (256) 280-2567	ls Road SW P 03 D (2	O Box 2084 Jecatur, AL 35602 256) 350-0686 Fax	

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. Results are only representative of the sample(s) received and information supplied by the client may affect the validity of results. No duplication of this report is allowed, except in its entirety.



SAMPLE RESULTS REPORT

Report Date/Time: 10/26/2022 15:55

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611 This report may contain information that is confidential and or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of Southern Environmental Testing.

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Sample ID: DC08828-02	Collected:	10/19/2022	Submitted:	10/19/2022
Semivolatiles by EPA 625 (Continued)					
Hexachloroethanc		<2.00	ug/l		
Nitrobenzene		<2.00	ugil		
Isophorone		<2.00	ug-1		
2-Nitrophenol		<2.00	ug/l		
2,4-Dimethylphenol		<2.00	ug l		
Bis(2-chloroethoxy)methane		<2.00	ug.I		
2,4-Dichlorophenol		<2.00	ug-l		
1,2,4-Trichlorobenzene		<2.00	ug l		
Naphthalene		<2.00	ug l		
Hexachlorobutadiene		<2.00	ug l		
4-Chloro-3-methylphenol		<2.00	ug l		
Hexachlorocyclopentadiene		<2.00	ug. l		
2,4,6-Trichlorophenol		<2.00	ug l		
2-Chloronaphthalene		<2.00	ug. l		
Dimethylphthalate		<2.00	ug. l		
Acenaphthylene		<2.00	ug·l		
2.6-Dinitrotoluene		<2.00	ug·l		
Acenaphthene		<2.00	ug, l		
2,4-Dinitrophenol		<2.00	ug l		
4-Nitrophenol		<2.00	ug. 1		
2,4-Dinitrotoluene		<2.00	ug. I		
Fluorene		<2.00	ugʻl		
Diethylphthalate		<2.00	ug l		
4-Chlorophenyl phenyl ether		<2.00	ug. I		
1,2-Diphenylhydrazine as Azobenzene		<2.00	ug.1		
4.6-Dinitro-2-methylphenol		<2.00	ug l		
N-Nitrosodiphenylamine		<2.00	ug-1		

3103 Northington Court	PO Box 487	2919 Fairgrounds Road SW	PO Box 2084
Florence, AL 35630	Florence, AL 35630	Decatur, AL 35603	Decatur, AL 35602
(256) 740-5532	(256) 740-5529 Fax	(256) 280-2567	(256) 350-0686 Fax

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. Results are only representative of the sample(s) received and information supplied by the client may affect the validity of results. No duplication of this report is allowed, except in its entirety.



3103 Northington Court

Florence, AL 35630

SAMPLE RESULTS REPORT

Report Date/Time: 10/26/2022 15:55

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611 This report may contain information that is confidential and or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of Sonthern Environmental Testing.

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Sample ID: DC08828-02	Collected:	10/19/2022	Submitted:	10/19/2022
Semivolatiles by EPA 625 (Continued)					
4-Bromophenyl phenyl ether		<2.00	ug l		
Hexachlorobenzene		<2.00	ug·l		
Pentachlorophenol		<2.00	ug·l		
Phenanthrene		<2.00	ug l		
Anthracene		<2.00	ug, l		
Di-n-butylphthalate		<2.00	ug/1		
Fluoranthene		<2.00	ug-l		
Benzidine		<2.00	ug l		
Pyrene		<2.00	ug-1		
Butylbenzylphthalate		<2.00	ug-1		
Benzo[a]anthracene		<2.00	ug l		
3,3'-Dichlorobenzidine		<2.00	ug l		
Chrysene		<2.00	ug·l		
Bis(2-ethylhexyl)phthalate		25.8	ug l		
Di-n-octylphthalate		<2.00	ug, l		
Benzo[b]fluoranthene		<2.00	ug. I		
Benzo[k]fluoranthene		<2.00	ug. l		
Benzo(a]pyrene		<2.00	ug-1		
Indeno(1.2.3-cd)pyrene		<2.00	ug·l		
Dibenzo[a,h]anthracene		<2.00	ug·l		
Benzo[g.h.1]perylene		< 2.()()	ug I		
Volatiles by EPA 624					
Benzene		<1.00	ug I		
Bromodichloromethane		<1.00	ug. l		
Bromoform		<1.00	ug.l		
Bromomethane		<2.00	ug/		
Carbon tetrachloride		<2.00	ug, l		

(256) 740-5532(256) 740-5529 Fax(256) 280-2567(256) 350-0686 FaxThe contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. Results are only representative of the
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Florence, AL 35630

PO Box 487

2919 Fairgrounds Road SW

Decatur, AL 35603

PO Box 2084

Decatur, AL 35602



SAMPLE RESULTS REPORT

Report Date/Time: 10/26/2022 15:55

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611 This report may contain information that is confidential and or proprietury. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of Southern Environmental Testing.

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Sample ID: DC08828-02	Collected:	10/19/2022	Submitted:	10/19/2022
Volatiles by EPA 624 (Continued)					
Chlorobenzene		<1.00	ug.1		
Chloroethane		< 1.()()	ugil		
Chloroform		~1.00	ug l		
Chloromethane		<1.00	ug l		
Dibromochloromethane		< 1.00	ug l		
1,2-Dichlorobenzene		<1.00	ug I		
1,3-Dichlorobenzene		<1.00	ug l		
1,4-Dichlorobenzene		< 1,00	ug l		
1,1-Dichloroethane		<1.00	ug l		
1,2-Dichloroethane		<1.00	ug/1		
trans-1,2-Dichloroethylene		<1.00	ug l		
trans-1.3-Dichloropropylene		\$2.00	ug l		
1,2-Dichloropropane		<1.00	ug l		
cis-1.3-Dichloropropylene		<1.00	ug/l		
Ethyl benzene		<1.00	ug I		
Methylene chloride		< 2.00	ug l		
1,1,2,2-Tetrachloroethane		<1.00	ug l		
1,1,1-Trichloroethane		<1.00	ug l		
1.1.2-Trichloroethane		<1.00	ug l		
1,1-Dichloroethylene		< [_(){)	ug l		
Dichlorodifluoromethane		<1.00	ug l		
Methyl Ethyl Ketone		<5.00	ug. l		
o-Xylene		<1.00	ug l		
n & p-Xylene		<2.00	ug l		
letrachloroethylene		<1.00	ug l		
Foluene		< [.00)	ug-1		
Trichloroethylene		<1.00	ug. l		

3103 Nort	thington Court	PO Box 487	2919 Fairgrounds Road SW	PO Box 2084
Florence,	AL 35630	Florence, AL 35630	Decatur, AL 35603	Decatur, AL 35602
(256) 740-	-5532	(256) 740-5529 Fax	(256) 280-2567	(256) 350-0686 Fax

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Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Elkmont Rural Effluent	Sample ID: DC08828-02	Collected:	10/19/2022	Submitted:	10/19/2022
Volatiles by EPA 624 (Continued)					
Trichlorofluoromethane		< 1.()()	ug j		
Vinyl chloride		<1.00	ugl		
2-Chloroethylvinyl ether		~1.00	ug 1		
Acrylonitrile		<1.00	ug l		
Acrolein		<1.00	ug l		
Acetone		5.38	ug l		
Methyl isobutyl ketone		<5.00	ug l		
Styrene		<1.00	ug l		
1,2,4-Trichlorobenzene		<1.00	ug l		

sample(s) received and information supplied by the client may affect the validity of results. No duplication of this report is allowed, except in its entirety.



SAMPLE RESULTS REPORT

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REPORT TO

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Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611

All calculations are performed prior to rounding per EPA and Standard Methods requirements. Calibration data for field analyses conducted by SET or ENERSOLV personnel are available upon request.

Data Qualifiers

м

Sample matrix precluded reliable matrix spike/matrix spike duplicate recovery and/or precision. Non-homogeneity of sample or presence of interfering substances may result in spike recoveries outside acceptance limits.

< Less than reporting limit

Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collection Date/Time		Analysis Start Date Time	Analysis End Date Time (BOD, CBOD, Coliforms)
DC08828-01	Total Hardness	[CALC]	FLY	Florence	10-19/2022	11:15	10/21/2022 07:57	
DC08828-01	Antimony	EPA 200.7 Rev. 4.4 6010C	FI Y	Florence	10 19 2022	11:15	10 21 2022 07 57	
DC08828-01	Arsenie	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	10 19 2022	11:15	10/21/2022 /07.57	
DC08828-03	Beryllium	EPA 200.7 Rev. 4 4:6010C	FLY	Florence	10 19 2022	11:15	10/21/2022 07:57	
DC08828-01	Cadinium	EPA 200 7 Rev. 4.4 6010C	FLY	Florence	10 19 2022	11:15	10.21.2022 07:57	
DC08828-01	Calcium	EPA 200.7 Rev. 4.4 6010C	FLY	Florence	10-19-2022	11:15	10/21/2022 07:57	
DC08828-01	Chronnum	EPA 200.7 Rev. 4.4:6010C	FLY	Florence	10/19/2022	11:15	10 21 2022 07.57	
DC08828-01	Copper	EPA 200.7 Rev. 4.4 6010C	FLY	Florence	10-19-2022	11:15	10 21 2022 07 57	
DC08828-01	Lead	EPA 200.7 Rev. 4.4-6010C	FLY	Florence	10/19/2022	11:15	10/21/2022 07:57	
DC08828-01	Magnesium	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	10-19-2022	11:15	10/21/2022 07:57	
DC08828-01	Nickel	EPA 200.7 Rev. 4.4 6010C	FLY	Florence	10 19 2022	11.15	10 21 2022 07 57	
DC08828-01	Selenium	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	10:19:2022	11:15	10/21/2022 07:57	
DC08828-01	Silver	EPA 200.7 Rev. 4.4/6010C	FLY	Florence	10/19/2022	11:15	10/21/2022 07:57	
DC08828-01	Thallium	EPA 200.7 Rev. 4.4 6010C	FLY	Florence	10 19 2022	11:15	10 21 2022 07 57	
DC08828-01	Zine	EPA 200.7 Rev. 4.4-6010C	FLY	Florence	10-19-2022	11:15	10/21/2022 07:57	

3103 Northington Court Florence, AL 35630 (256) 740-5532

2919 Fairgrounds Road SW Florence, AL 35630 Decatur, AL 35603 (256) 280-2567 (256) 740-5529 Fax

PO Box 2084 Decatur, AL 35602 (256) 350-0686 Fax

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PO Box 487

SAMPLE RESULTS REPORT

Report Date/Time: 10/26/2022 15:55

REPORT TO

Sam Thomas Limestone County Water & Sewer 17218 US Hwy 72 Athens, AL 35611 This report may contain information that is confidential and or proprieties. This information γ intended for the addressee only and may not be copied or disseminated except γ tub with at the written except of S othern Environmental festing.

Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collectio Date/Tim	ກ າເ	Analysis Start Date Time	Analysis End Date Time (BOD. CBOD. Coliforms)
DC08828-02	Total Cyanide	ASTM D7511-12	LLW	Decatur	10 19 2022	11:30	10/20/2022 . 0:44	
DC08828-02	Phenolics (4AAP)	EPA 420.1 Rev. 1978	WCC	Florence	10/19/2022	11:30	10/21/2022 08:05	
DC08828-02	Volatile Organic Analytes	EPA 624.1	AGD	Florence	10.19.2022	11:30	10/24/2022 (1:00	
DC08828-02	BN AE Semivolatiles	EPA 625.1	FLY	Florence	10 19 2022	11:30	10/20/2022 08:45	



SOUTHERN ENVIRONMENTAL TESTING ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2919 FAIRGROUND ROAD SW, DECATUR, AL 35603 3103 NORTHINGTON COURT, FLORENCE, AL 35630

PAGE 1 of 1 Elkmont Rural **Permit Renewal**

(256) 350-0846 www.setesting.com

COMPANY	CLIENT NAME			CL	IENT P.O. N	NUMBER	,	PROJECT	NUMBER	۶	<u></u>	<u> </u>									2 at a this hid to a				
Limesto	ne County W	ater and	Sewer									REQUESTED ANALYSES													
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sthomas	s@lcwsa.com			256-233-6	444		ODT DELIN	Permi	t Rene	wal			-	AS	С С	Ľ			A	U			***		
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SAME	PLER INFO	SM 4	500H+B	SM 4500-0	CI G (2011) SN	14500-0 G	6	SM	2550B	1		60ml Amber Glass NaOH					CN							
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Start	1115	Date		Date		Date			Date		3		40ml	Clea	ar Via	als No	ne/ł	HCI					62	1	
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NPDES Individual Permit -Modification/Reissuance - Municipal (Form 188)

Digitally signed by: GlobalSign RSA OV SSL CA 2018 Date: 2022, 10.03 10:10:38 -05:00 Reason: Submission Data Location: State of Alabama

version 1.9

(Submission #: HPN-2XKC-MX9PZ, version 1)

Details

Submission ID HPN-2XKC-MX9PZ

Form Input

General Instructions

NPDES Individual Permit Modification and Reissuance Form Publicly-Owned Treatment Works (POTW), Other Treatment Works Treating Domestic Sewage (TWTDS), and Public Water Supply Treatment Plants

IF YOU ARE APPLYING FOR A PERMIT MODIFICATION, PLEASE CONTACT YOUR ASSIGNED PERMIT CONTACT TO DISCUSS THE TYPE OF MODIFICATION YOU SHOULD APPLY FOR BEFORE COMPLETING THIS FORM.

This form should be used to submit the following permit requests for permitted Publicly-Owned Treatment Works (POTW), Other Treatment Works Treating Domestic Sewage (TWTDS), and Public Water Supply Treatment Plants:

(1) Permit Transfers

(2) Permittee/Facility Name Changes

(3) Minor Modifications

This modification may not be used for changes that would result in changes to permit conditions

- (4) Major Modifications (No Effluent Limit Change)
- (5) Major Modifications (Effluent Limit Change)

(6) Reissuances

Reissuance of a permit due to approaching expiration

Revocation and Reissuance of permit prior to its scheduled expiration

Please complete all questions and attach all necessary documentation as prompted throughout the application process. Incomplete or incorrect information will delay processing.

Applicable Fees:

Permit Transfers and/or Permittee/Facility Name Changes \$800 Minor Modifications \$800 Major Modifications (No Effluent Limit Change) \$3,140 (Major Sources) \$2,250 (Minor Sources or Public Water Supply Treatment Plants) Major Modifications (Effluent Limit Change) \$7,060 (Major Sources) \$4,290 (Minor Sources or Public Water Supply Treatment Plants) Reissuances \$7,060 (Major Sources) \$4,290 (Minor Sources) \$4,290 (Minor Sources) \$4,290 (Minor Sources) \$4,290 (Minor Sources or Public Water Supply Treatment Plants) Reissuances \$7,060 (Major Sources) \$4,290 (Minor Sources or Public Water Supply Treatment Plants) For assistance, please click here to determine the permit engineer responsible for the site or call (334) 271-7810.

Processing Information

Purpose of Application

Reissuance of Permit Due to Approaching Expiration

Please indicate if the Permittee is applying for a permit transfer and/or name change in addition to permit modification or reissuance: None

Action Type

7

Reissuancé

Briefly describe any planned changes at the facility that are included in this reissuance application: Possible plant expansion to add capacity.

Do you have additional contacts associated with this site? No

Permit Information

Permit Number

AL0056545

Current Permittee Name

Limestone County Water and Sewer Authority

Permittee

Permittee Name Limestone County Water and Sever Authority

Mailing Address

Post Office Box 110

Athens, AL 35612

Is the Operator the same as the Permittee?

Yes

Has the Operator s scope of responsibility changed? No

Responsible Official

•										
Prefix <i>Mr</i> .										
First Name	Last Name									
Daiyi	VVIIIIamson									
Title CEO										
Organization Name Limestone County Water & Sewer Authority										
Phone Type	Number	Extension								
Business	256-233-6445	100								
Email dwilliamson@lcwsa.com										
Mailing Addre	SS									
17218 Highwa	17218 Highway 72 West									
Athens AL 356	312									

Existing Permit Contacts

Affiliation Type	Contact Information	Remove?
Responsible Official, Notification Recipient	Daryl Williamson, Limestone County Water and Sewer Authority	Кеер
Permittee	Limestone County Water and Sewer Authority	Кеер
Emergency Contact	Ricky Grubbs, Limestone County Water and Sewer Authority	Remove

Affiliation Type	Contact Information	Remove?
DMR Contact	Rob Cook	Remove

Facility/Site Information

Facility/Site Name

Elkmont Rural Village WWTP

Organization/Ownership Type

Water/Sewer/Utility District or Board

The Facility/Site Address is the physical location of the treatment plant. Do not enter a PO Box. Do not enter the address of the office of the Permittee if different from the treatment plant.

Facility/Site Physical Location Address

18458 RURAL VILLAGE BACK WAY Elkmont, AL 35620

Facility/Site County Limestone

Facility/Site Contact

 Prefix
 Mr.

 First Name
 Last Name

 Alan
 Lash

 Title
 Engineering Executive

 Organization Name
 Engineering Water & Sever Authority

 Phone Type
 Number
 Extension

Mobile 256-527-1836

Email

alash@lcwsa.com

Note

Detailed directions should be included if a street address is not available.

Detailed Directions to the Facility/Site NONE PROVIDED

Please refer to the link below for Lat/Long map instruction help. Map Instruction Help

Facility/Site Front Gate Latitude and Longitude 34.90999999999999,-86.99916700000000

Primary SIC Code 4952-Sewerage Systems

Primary NAICS Code

221320-Sewage Treatment Facilities

Emergency Contact
Prefix
Mr.
First Name Last Name
Alan Lash
Title
Engineering Executive
Phone Type Number Extension
Mobile 256-527-1836
Email
alash@lcwsa.com

Does the facility have a designated Environmental Contact who is different than the Facility Contact or Emergency Contact listed above?

Enforcement History

Has the applicant been issued any Notices of Violation, Orders (Consent or Administrative/Unilateral), or Judicial Actions (Complaint, Settlement Agreement, Consent Decree, or Court Order) concerning water pollution or other permit violations within the State of Alabama in the past five years? No

Wastewater Treatment & Discharge Information

Please indicate which type of operations occur at this facility: Treatment Works Treating Domestic Sewage

What treatment type is used at this facility: Mechanical (WWTP)

What discharge options are used at this facility: Surface Water

What is the Total Design Flow (in millions of gallons per day, MGD) for this facility? 0.15

What is the facility s total 2-Year Actual Average Flow (in millions of gallons per day, MGD)? 0.073

Process Flow Schematic

ERV PFD 9-27-2022.pdf - 09/30/2022 01:36 PM Comment NONE PROVIDED

Do you share an outfall with another facility? No

Indicate if automatic sampling equipment or continuous wastewater flow metering equipment is being operated at this facility:

Current	Yes/No
Continuous Wastewater Flow Metering Equipment	Yes
Automatic Sampling Equipment	Yes

Indicate if installation of automatic sampling equipment or continuous wastewater flow metering equipment is planned at this facility:

Planned		
Continuous Wastewater Flow Metering Equipment	N/A	

Schematic Diagram

ERV PFD 9-27-2022 sampler.pdf - 09/30/2022 01:36 PM Comment

Both influent and effluent samplers are ISCO model 4700's.

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

Please briefly describe these changes and any potential or anticipated effects on the wastewater quality and quantity:

Expansion of the current WWTP to add capacity that will allow permitting the plant at 0.30 MGD versus the current 0.15 MGD.

Treatment Methods (TWTDS)

Treatment Level

Preliminary Treatment (e.g., grit removal, flow equalization, screening) Primary Treatment (e.g., primary clarification, chemically-enhanced primary treatment) Secondary Treatment [e.g., suspended growth biological treatment; attached growth and combined biological treatment].

Wastewater Disinfection Technology Information

Ultraviolet Light Disinfection

Please select all POTW Treatment Categories that apply.

Activated Sludge Process & Modifications Aeration Clarification Disinfection Sedimentation Equalization

Please select all unit operations that apply for Activated Sludge Process & Modifications:

Activated Sludge, Extended Aeration Reactor (Oxidation Ditch)

Please select all unit operations that apply for Aeration:

Aeration (post-treatment) Aeration (general)

Please select all unit operations that apply for Clarification: Clarification, Secondary

Please select all unit operations that apply for Disinfection:

Disinfection, Ultraviolet Disinfection, UV Radiation

Please select all unit operations that apply for Equalization:

Equalization, Flow Equalization, At POTW

Please select all unit operations that apply for Preliminary Treatment:

Screen, Bar Screen (Bar Rack and Coarse)

Please select all unit operations that apply for Sedimentation: Sedimentation

Waste Storage & Disposal Information

Any storage of solids or liquids at the facility that have any potential for accidental discharge to a water of the state? Yes

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 app

Description of Waste	Description of Storage Location	Disposal Location
Wet Sewage Sludge	Sludge holding tanks / digesters	Off-site

Collection System Information

Collection Systems

Collection System ID	Collection System Name	Owner Type of Collection System	Population of Collection System
NONE PROVIDED	NONE PROVIDED	Publicly owned (Owned by State, municipality, or Tribal government. This includes a district association or other public body created by or pursuant to State law and having jurisdiction over the disposal of sewage).	533

Industrial Indirect Discharge Contributors

Does this wastewater treatment system receive or plan to receive industrial source wastewater contributions? Yes

How will you be submitting the list of existing and proposed industrial source wastewater contributions to the municipal wastewater treatment system?

I want to add my data directly on this form.

List the existing and proposed industrial source wastewater contributions to the municipal wastewater treatment system:

Company Name	Description of Industrial Wastewater	Existing or Proposed	Flow (MGD)	Subject to SID Permit?
Snap-On Logistics Company	Waste from Metal Finishing	Existing	0.0028	Yes
Aviagen	Wash water from manufacturing & cleaning operations	Existing	0.0187	No

Are industrial wastewater contributions regulated via a locally approved sewer use ordinance? No

Coastal Zone Information

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County? No

Anti-Degradation Evaluation

Does this modification/reissuance include a new or increased discharge that began after April 3, 1991? Yes

Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced above?

EPA Application Forms

All Applicants must submit certain EPA permit application forms. More than one application form may be required from a POTW or other TWTDS depending on the number and types of discharges or outfalls.

The EPA application forms must be submitted as follows:

1. Applicants for new or existing discharges of sanitary wastewater from Publicly-Owned Treatment Works (POTW) and Other Treatment Works Treating Domestic Sewage (TWTDS) must submit Form 2A. If the facility design capacity is equal to or greater than 1 MGD, Form 2F is also required.

2. Applicants for new or existing land application of sanitary wastewater must submit Form 2A and Form 2F.

3. Applicants for new and existing discharges of process wastewater from water treatment facilities (i.e. public water supply treatment plants) must submit Form 1 and Form 2C.

4. Applicants that generate sewage sludge, derive a material from sewage sludge, or dispose of sewage sludge must submit Part 2 of Form 2S.

The EPA application forms are found on the Department s website here.

EPA Form 2A

EPA FORM 2A signed.pdf - 10/03/2022 09:54 AM Comment NONE PROVIDED

EPA form 2S

EPA FORM 2S signed.pdf - 10/03/2022 09:54 AM Comment NONE PROVIDED

Other attachments (as needed)

NONE PROVIDED Comment NONE PROVIDED

Topographic Map

Attach topographic map here.

Rural Village WWTP Topo.pdf - 09/30/2022 04:08 PM Comment NONE PROVIDED

Engineering Report/BMP Plan Requirements

Engineering Report/BMP Plan Requirements

NONE PROVIDED Comment NONE PROVIDED

Outfalls (1 of 1)

Outfall: 001

Do you want to remove this outfall from the modified/reissued permit? No

Outfall Identifier 001

Is this Outfall equipped with a diffuser? No What is this Outfall's 2-Year Average Flow (in millions of gallons per day, MGD)? 0.073

Receiving Water Sulphur Creek

Does the discharge enter the named receiving water via an unnamed tributary? NONE PROVIDED

Please refer to the link below for Lat/Long map instruction help. Map Instruction Help

Location of Outfall or Discharge Point/Receiving Water 34.90916700000000, -86.99888900000001

A list of the 303(d) impaired waters can be found here.

303(d) Segment?

No

A list of waters subject to a TMDL can be found here.

TMDL Segment? No

Fee

Fee 4290

Note: Additional Fees may be assessed after the review of the application is complete. These fees may include any of the following:

Modeling with Data Collection (10 Stations) - \$60,390 Modeling with Data Collection (5 Stations) - \$49,315 Modeling - desktop - \$4,855 Review of Model Performed by Others - \$2,705 Seasonal Limits - \$4,855/additional season Biomonitoring & Toxicity Limits - \$1,015

Please contact your area engineer if you have any questions about which additional fees may be assessed for this application.

Application Preparer

Application Preparer

Athens, AL 35612

Prefix Mr.			
First Name Alan	Last Name Lash		
Title Engineering Executive			
Organization Name Limestone County Water & Sever Authority			
Phone Type	Number	Extension	
Mobile	256-527-1836		
Email alash@lcwsa.com			
Address			
17218 Highway 72 West			

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10/3/2022 10:10:38 AM

SUBMISSION AGREEMENTS

- I am the owner of the account used to perform the electronic submission and signature.
- I have the authority to submit the data on behalf of the facility I am representing.
- I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

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

I certify under penalty of lawthat 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.

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

(1) The application for an NPDES permit shall be signed by a responsible official, as indicated below.

(a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;

(b) In the case of a partnership, by a general partner;

(c) In the case of a sole proprietorship, by the proprietor; or

(d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

Signed Alan Lash on 10/03/2022 at 9:58 AM
EP	A Identifica	ation Number	NPDES Pe ALOO	mit Num 56545	ber	Elkmont	Facility Na Rural Vill	me age WWTP]	Form Approved 03/05/19 OMB No. 2040-0004	
Complete permit a Part 2 is sewage PART 2,	PAR e this pa oplicatio divided sludge u SECTIO All Par Facilit 1.1	T 2 art if you have an e n. In other words, into five sections. use or disposal pra DN 1. GENERAL t 2 applicants mus y Information Facility name Elkmont Rural VII	iffective NPDES complete this p Section 1 perta ctices. See the NFORMATION t complete this lage WWTP	PE S permit art if you ins to a instruct I (40 CF section	RMIT A or have ur facility II applica ions to d R 122.2	PPLICATIO been direct has, or is a nts. The ap elermine wi 1(q)(1 7) A	N INFOR ed by the applying fo plicability hich section ND (c)(13	MATION (40 NPDES pern or, an NPDES of Sections 2 ons you are n	CFR 122 nitting aut permit. to 5 dep equired to	2.21(q)) Ihority to submit a full ends on your facility's o complete.	
		P.O. Box 110 City or town Athens Contact name (f Sam Thomas	irst and last)		State AL Title Operato	r		ZIP cc 35612 Email sthoma	address is@lcwsa	Phone number (256) 497-9700	
	1.2	Locator adoress (street, rotter 18458 Rural Village Back Way City or town Elkmont 1.2 Is this facility a Class I sludge m			State AL anagement facility?				ZIP code 35620		
,	13	Facility Dealers	Flow Date	1			z N	lo	0.150 0	illion collone per day (mod)	
atio	1.4	Total Populatio	n Served	·				• =	0.150 m	533	
Inform	1.5	Ownership Stat	tus	·	* *	5			× ^{K¹} 1 U		
eneral		Public—fede	eral		Public— Other (sp	state pecify)		U Other p	ublic (spe	cify) Sewer Authority	
ບຼ	Applic	ant Information				i.		a 2	• • •	n di Perin Nu n n Perin	
	1.6	ls applicant diffe	rent from entity	listed u	nder Iter	n 1.1 above		No →SKIF	to Item	1.8 (Part 2, Section 1).	
a a y r	1.7	Applicant name Limestone Count	y Water and Se	wer A <u>u</u> t	hority						
		Applicant mailing P.O. Box 110	address (stree	et or P.C). box)			L. 1910178 - 1			
		City or town		· · · ·			State			ZIP code	
		Contact name (f	irst and last)	Title Engine	ering Ex	ecutive	Phone (number 7-0836		Email address alash@icwsa.com	
44	1.8	Is the applicant	he facility's owr	ner, ope	rator, or	both? (Che	ck only or	e response.)			
		D Operato	or	•		Owner		. ,	\checkmark	Both	
· ·	1.9	To which entity s	should the NPD	ES perr	nitting au	thority send	d correspo	ondence? (Ch	eck only	one response.)	
	_	Facility				Applicant				Facility and applicant (they are one and the same)	

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1.10 Facility's NPDES permit number	PA Identifica	ation Number	NPDES Permit Nu AL0056545	imber 5	Facili Elkmont Rura	ty Name I Village WW1	ГР	Form Approved 03/05/ OMB No. 2040-00
1.10 Pacinty S MPDES permit number AL0056345 1.11 Indicate all other determs, latie, and local permits or construction approvals received or applied for that regule facility's sewage sludge management practices below. Image: Construction approvals received or applied for that regule facility's sewage sludge management practices below. Image: Construction approvals received or applied for that regule facility's sewage sludge management practices below. Image: Construction approvals received or applied for that regule facility's sewage sludge management practices below. Image: Construction approvals received or applied for that regule facility's sewage sludge management practices below. Image: Construction approvals received or applied for that regule facility's sewage sludge management practices below. Image: Construction approvals received or applied for that regule facility or facility			<u></u>		;	-1 1		
1.11 Indicate all other federal, state, and local permits or construction approvals received or applied for that regula facility's sewage studge management practices below. □ RCRA (trazardous wastes) □ Nonattainment program (CAA) □ NESHAPs (CAA) □ PSD (air emissions) □ Dredge or fill (CWA Section 404) □ Other (specify) 1 0 Ocean dumping (MPRSA) □ UIC (underground injection of fulds) □ 1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility o indica Country No ⇒ SKIP to item 1.14 (Part 2, Section below. 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge throcurs.) □ Yes 1.14 Have you attached a topographic map containing all required information to this application? (See instruction specific requirements.) □ No 1.14 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices three engolies during the term of the generationation and information to this application? (See instruction specific requirements.) □ No 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge generation, treatment, sorage No 1.16 Have you attached a line d	1.10	Check he to submit	S permit number are if you do not have t Part 2 of Form 2S.	an NPDES	S permit but are	otherwise requ	uired	AL0056545
□ RCRA (hazardous wastes) □ Nonattainment program (CAA) □ NESHAPs (CAA) □ PSD (air emissions) □ Dredge or fill (CWA Section 404) □ Other (specify) □ Ocean dumping (MPRSA) □ UIC (underground injection of fluids) □ Other (specify) 1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility o Indian Country? □ No → SKIP to item 1.14 (Part 2, Section below. 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge the occurs. □ 1.14 Have you attached a topographic map containing all required information to this application? (See instruction specific requirements.) □ Yes □ □ Yes □ No Use Drawing □ 1.15 1.14 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices the employed during the term of the permit containing all the required information to this application? (See instruction specific requirements.) □ No □ Yes □ No □ No 1.15 Have you attached a line drawing and/or a marrative description that identifies all sewage sludge practices the employed dur	1.11	Indicate all othe facility's sewage	r federal, slate, and lo sludge management	ocal permits t practices	s or construction below.	approvals rec	xived or ap	plied for that regulate th
RCRA (hazardous wastes) Nonattainment program (CAA) NESHAPs (CAA) PSD (air emissions) Dredge or fill (CWA Section 404) Other (specify) Ocean dumping (MPRSA) UIC (underground injection of fluids) Other (specify) Indian Country No ⇒ SKIP to item 1.14 (Part 2, Section below. No → SKIP to item 1.14 (Part 2, Section below. 1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility o indian Country? No → SKIP to item 1.14 (Part 2, Section below. 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge the occurs. Topographic Map No 1.14 Have you attached a topographic map containing all required information to this application? (See instruction specific requirements.) □ Yes No Line Drawing No 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices the employed during the term of the permit containing all the required information to this application? (See instructor specific requirements.) □ Yes No Contractor Information No 1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, tre use, or disposal at the facility?		a'	2. IV					d real and the second se
□ PSD (air emissions) □ Oredge or fill (CWA Section 404) □ Ocean dumping (MPRSA) □ UIC (underground injection of fluids) 1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility o Indian Country? □ □ Yes □ No → SKIP to Item 1.14 (Part 2, Section below. 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge the occurs. 1.14 Have you attached a topographic map containing all required information to this application? (See instruction specific requirements.) □ Yes □ 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices the employed during the term of the permit containing all required information to this application? (See instruction specific requirements.) □ Yes □ 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices the employed during the term of the permit containing all required information to this application? (See instruction specific requirements.) □ Yes □ 1.16 Daccontractors have any operational or maintenance responsibilities related to sewage sludge generation, treat use, or disposal at the facility? □ Ye		🔲 RCRA (haz	zardous wastes)	D No	nattainment pro	gram (CAA)		SHAPs (CAA)
Image: Comparison of the second s		PSD (air er	nissions)	Dr 01	edge or fill (CW/ 4)	A Section	Oth	er (specify)
Indian Country 1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility or Indian Country? Yes No → SKIP to Item 1.14 (Part 2, Section below. 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge the occurs. Topographic Map No → SKIP to Item 1.14 (Part 2, Section below. 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge the occurs. Topographic Map No 1.14 Have you attached a topographic map containing all required information to this application? (See instruction specific requirements.) Image: Yes No Line Drawing No 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices the emptoyed during the term of the permit containing all the required information to this application? (See instruction specific requirements.) Image: Yes No Contractor Information No 1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, the use, or disposal at the facility? Yes No → SKIP to Item 1.18 (Part 2, Section below. 1.17 Provide the following information for each contractor. <t< td=""><td></td><td>Ocean dun</td><td>nping (MPRSA)</td><td colspan="4">UIC (underground injection of fluids)</td><td></td></t<>		Ocean dun	nping (MPRSA)	UIC (underground injection of fluids)				
1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility or indian Country?	Indian	Country				ananan an Rad de Constantina anna		
1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge th occurs. Topographic Map 1.14 Have you attached a topographic map containing all required information to this application? (See instruction specific requirements.) Image: Person in the provide a description of the permit containing all required information to this application? (See instruction specific requirements.) Image: Person interment in the permit containing all the required information to this application? (See instruction specific requirements.) Image: Person interment interment into the permit containing all the required information to this application? (See instruction specific requirements.) Image: Person interment	1.12	Does any gener Indian Country?	wage sludge	e from this facility occur 14 (Part 2, Section 1)				
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1.14 Have you attached a topographic map containing all required information to this application? (See instruction specific requirements.)	Topos	ranhic Man			anaann	y a 1 9		n
Image: Press Provide the following information for each contractor. No 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices the employed during the term of the permit containing all the required information to this application? (See instrue specific requirements.) Image: Press	1.14	Have you attach specific requirer	ned a topographic main nents.)	p containin	g all required inf	ormation to th	is applicatio	n? (See instructions for
Line Drawing 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices the employed during the term of the permit containing all the required information to this application? (See instrue specific requirements.)		Yes						
1.15 Have you addened a line drawing ano/or a haranive description that identities an sewage studge practices the employed during the term of the permit containing all the required information to this application? (See instruction specific requirements.)	Line D	rawing	- d - Koo drawing and	tion o norma	tion dependention		ludaa araatiaaa that wi	
✓ Yes No Contractor Information Image: No 1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treuse, or disposal at the facility? ✓ Yes ✓ No → SKIP to Item 1.18 (Part 2, Section below. 1.17 Provide the following information for each contractor. ✓ Check here if you have attached additional sheets to the application package. ✓ Contractor company name Mailing address (street or P.O. box) City, state, and ZIP code Contact name (first and last) Telephone number Email address	1,15	employed during specific requirer	ied a line drawing and g the term of the perm nents.)	nit containir	inve description ig all the require	d information	an sewage to this applic	cation? (See instruction
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1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treuse, or disposal at the facility? □ Yes Image: No ⇒ SKIP to Item 1.18 (Part 2, Section below. 1.17 Provide the following information for each contractor. □ Check here if you have attached additional sheets to the application package. Contractor company name Contractor 1 Mailing address (street or P.O. box) P.O. box) City, state, and ZIP code Contact name (first and last) Telephone number Email address	Contra	actor Information						NO 800 CO 90 CO 90 CO 10 CO
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1.17 Provide the following information for each contractor. Check here if you have attached additional sheets to the application package. Contractor 1 Contractor 2 Contracto		🗋 Yes			•	No 🌧 SKI	P to Item 1.	18 (Part 2, Section 1)
Check here if you have attached additional sheets to the application package. Contractor 1 Contractor 2 Contractor Contractor company name Mailing address (street or P.O. box) City, state, and ZIP code Contact name (first and last) Telephone number Email address	1.17	Provide the follo	wing information for e	each contra	ctor.	UCIUM.		<u></u>
Contractor 1 Contractor 2 Contractor Contractor company name Mailing address (street or P.O. box) P.O. box) City, state, and ZIP code Contact name (first and last) Telephone number Telephone number Email address Email address		Check he	ckage.					
Contractor company name Mailing address (street or P.O. box) City, state, and ZIP code Contact name (first and last) Telephone number Email address			99999 (1999)	Cont	ractor t	Contra	ctor 2	Contractor 3
Mailing address (street or P.O. box) City, state, and ZIP code Contact name (first and last) Telephone number Email address		Contractor comp	oany name	00000000.00040000000000000000000000000			n den konstruktion an den die Angeleen en	
City, state, and ZIP code Contact name (first and last) Telephone number Email address		Mailing address P.O. box}	(street or		and we are a second and a second	na n		
Contact name (first and last) Telephone number Email address		City, state, and	ZIP code					
Telephone number Email address		Contact name (f	irst and last)	1999 Million (gan i tan i cat cay gan anna an				
Email address		Telephone num	ber					
		Email address						

		AL0056545	Elkmont Rura	al Village WW1P		UMB NO. 204			
1.17			Contractor 1	Contractor	2 See Channing	Contracto			
çont.	Responsibilities	of contractor							
Polluta	int Concentration	19.4. 8. E	a siga sing Siga sing Siga sing			्रम् २ २ म २ २ म २ २ म २ ३ म २ ३ म			
Using the sewage based of	he table below or a sludge have beer on three or more s	separate attachmen established in 40 CF amples taken at least	t, provide sewage sludge -R 503 for this facility's ex one month apart and mu	monitoring data for t cpected use or dispo- st be no more than 4	he pollutar sal practice .5 years of	nts for which lim es. All data mus d.			
	Check here if yo	ou have attached add	itional sheets to the applic	ation package.					
1.18		lutant	Average Monthly Concentration	Anatytical Me	thod	Detection L			
	Arsenic		N/A						
	Cadmium								
	Chromium								
	Copper								
	Lead								
	Mercury								
	Molybdenum								
	Nickel								
	Selenium								
	Zinc								
Checkl	Ist and Certificati	on Statement		rus d	2.3 ¹				
1.19	In Column 1 bek	ow, mark the sections	of Form 2S, Part 2, that y	you have completed	and are su	ibmitting with y			
	applicants are required to complete all sections or provide attachments. See Exhibit 2S-2 in								
		. · · · · · · · · · · · · · · · · · · ·	olumn 1	· · · · · · · · ·		Column 2			
	Section 1	General Information	n)		🗹 w/ atta	achments			
	Section 2 Derived	2 (Generation of Sewa from Sewage Sludge)	age Sludge or Preparation	n of a Material	🗆 w/ atta	achments			
	Section 3	3 (Land Application of	Bulk Sewage Sludge)		w/ atta	achments			
	Section 4	(Surface Disposal)			w/ atta	achments			
						ottachmonto			
	Section 5	i (Incineration)			w/ atta	schments			
1.20	Certification St	5 (Incineration) atement	,		🗆 w/ atta	achments			
1.20	Certification St Certify under personal supervision in active information st directly responsible belief, true, accur including the pos	5 (Incineration) atement enalty of law that this cordance with a syst submitted. Based on r ble for gathering the irate, and complete. I ssibility of fine and im	document and all attachm em designed to assure th ny inquiry of the person o information, the informatic am aware that there are prisonment for knowing vi	nents were prepared at qualified personne r persons who mana on submitted is, to th significant penalties iolations.	w/ atta under my d el properly ge the sys e best of m for submitte	achments direction or gather and eva tem, or those p by knowledge a ing false inform			
1.20	Section 4 Certification St I certify under persupervision in an the information s directly responsi belief, true, accur including the post Name (print or the	5 (Incineration) atement enalty of law that this ccordance with a syst submitted. Based on r ble for gathering the irate, and complete. I ssibility of fine and im rpe first and last name	document and all attachm em designed to assure th ny inquiry of the person o information, the informatio am aware that there are prisonment for knowing vi e)	nents were prepared nat qualified personne pr persons who mana on submitted is, to th significant penalties iolations.	w/ atta under my of property ge the sys best of m for submitt	achments direction or gather and eva tem, or those p ny knowledge a ing false inform			
1.20	Certification St Certify under personal supervision in au the information st directly responsible belief, true, accu- including the posi- Name (print or ty Daryl Williamson	5 (Incineration) atement enalty of law that this ccordance with a syst submitted. Based on r ble for gathering the rate, and complete. I ssibility of fine and im rpe first and last name	document and all attachm em designed to assure th ny inquiry of the person o information, the informatic am aware that there are prisonment for knowing vi e)	nents were prepared at qualified personne or persons who mana on submitted is, to th significant penalties iolations. Official title CEO	w/ atta under my el properly ge the sys e best of m for submitt	achments direction or gather and eva tem, or those p by knowledge a ing false inform			
1.20	Certification St Certification St I certify under particular supervision in and the information s directly response belief, true, accu- including the pose Name (print or ty Daryl Williamson Signature	5 (Incineration) atement enalty of law that this ccordance with a syst submitted. Based on r ible for gathering the rrate, and complete. I ssibility of fine and im rpe first and last name	document and all attachm em designed to assure th my inquiry of the person o information, the informatic am aware that there are s prisonment for knowing vi e)	nents were prepared at qualified personne or persons who mana on submitted is, to th significant penalties iolations. Official title CEO Date signed	w/ atta under my d el properiy ge the sys e best of m for submitt	achments direction or gather and eve tem, or those p ay knowledge a ing false inform			

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EP	A Identifi	cation Number	NPDES Permit AL00565	Number 545	Eikmon	Facility t Rural	Name Village WW1	rp	Form Appro OMB No	ved 03/05/19 5, 2040-0004
ART 2 LUDG	, SECT E (40 C	ON 2. GENERATI FR 122.21(a)(8) T	ION OF SEWAGE (HROUGH (12))	SLUĎGE OR P	REPAR	TION	OF A MATE	RIAL DER	RIVED FROM SE	WAGE
an the second	2.1	Does your facility	y generate sewage	sludge or deriv	e a mate	erial fro	m sewage sl	udge?		
		🗹 Yes	•					o to Part 2,	Section 3.	
utian s n Spain Suit at	Amou	int Generated On	site				A CONTRACTOR	ا به ورای ما ا		
	2.2	Total dry metric	tons per 365-day p	eriod generated	l at your	facility:			3.0	
्रियो हो। सन्दर्भ हो हो	Amou	int Received from	Off Site Facility		- * * - \$			1 1 20 1 (2 2 1 2 2 2 2 2 2 2 2 2		
	2.3	Does your facility	y receive sewage s	ludge from ano	ther facil	ity for ti	reatment use	or dispos	al?	
		Yes					No → SKI	P to Item 2	2.7 (Part 2, Section	on 2) below.
	2.4	treatment, use, c	number of facilities of disposal:	s from which yo	u receive	e sewa	je sludge tor			
art Bhri y	Provid	le the following info	ormation for each of	f the facilities fro	om whic	n you re	ceive sewag	je sludge.	I	
8		Check here if you	have attached add	ditional sheets t	o the ap	plication	n package.			
Slud	2.5	Name of facility								
vage		Mailing address	(street or P.O. box))				•		
m Sei		City or town	-			State			ZIP code	
ed fro		Contact name (fi	rst and last) Titl	le		Phone	e number		Email address	
Dertve		Location address	s (street, route num	iber, or other sp	ecific ide	entifier)			Same as ma	iling address
aterial		City or town		· .		State			ZIP code	
of a M		County			County code					Not available
ation	2.6	Indicate the amo	unt of sewage slud	ge received, the	e applica	ble pat	hogen class	and reduc	tion alternative, a	and the
epar		Ar	mount	Pathoge	n Class	and R	eduction	Vect	or Attraction Re	duction
<u>ک</u>		dry m	ietric tons)		Altern	ative	888 9 jili 8 s		Option	8 ⁴ 8 5 1 ³
dge.					, Allema	tive 1			n 1	
Slu					, Allema	tive 2			n 2	
age					, Allema . Allema	uve 3 tive 4			n 3 n 4	
Sew				Class A	, Alterna	tive 5		C Optio	n 5	
o					Alterna	tive 6			n6 ~7	
atio					, Alterna	tive 2			n 8	
her				Class B	, Alterna	tive 3		D Optio	n 9	
Ğ					i, Alterna	tive 4	divolment		n 10 n 11	
r s sa Si sasi	2.7	Identify the treatm	ment process(es) th	hat are known to	occur a	t the of	fsite facility, i	including t	plending activities	and
- 34 F		Proliminar	ice pathogens or ve	ector attraction p	propertie	s. (Che	eck all that ap	opły.)		
		degritting)	y operations (e.g.,	annage drivnauð			Thickening	(concent	ration)	
		Stabilizatio	on				Anaerobic	digestion		
		Compostir	ng	•			Conditionin	ng		
	Disinfection (e.g., beta ray irradiation, gammirradiation, pasteurization)						Dewatering beds, sludg	g (e.g., cei ge lagoon:	ntrifugation, sludų s)	ge drying
1. 1.		Heat dryin	g	2.1			Thermal re	duction		
		Methane c	or biogas capture ar	nd recovery			Other (spe	cify) <u>Aero</u>	bic Digestion	

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EPA Form 3510-2S (Revised 3-19)

CLA IDBUM	cation Number	NPDES Permit Nur AL0056545	mber	Fa Elkmont Re	ural [°]	Name Village WWTF	Form Approved 03/05/19 OMB No. 2040-0004	
Treat	ment Provided at	Your Facility						
2.8	For each sewag	e sludge use or dispos le vector altraction red	al practice	, indicate the	app at yo	licable pathog our facility. Att	en class and reduction alternative ach additional pages, as necessary.	
ke ^d ani <u>e</u> 1	Use or Dis (ch	posal Practice eck one)	Patho	gen Class ar Alternati	id R ve	eduction	Vector Attraction Reduction Option	
а 4.3 Пар ³	Land applicat Land applicat (bulk) Land applicat (baos)	ion of bulk sewage ion of biosolids ion of biosolids	I Not a □ Class □ Class □ Class □ Class □ Class	pplicable A, Alternative A, Alternative A, Alternative A, Alternative	e 1 e 2 e 3 e 4		Not applicable Option 1 Option 2 Option 3 Option 4	
	Surface dispondence Uncineration	osal in a landfill e disposal	Class	A, Alternative A, Alternative B, Alternative B, Alternative B, Alternative	e 5 e 6 e 1 e 2 e 3		Coption 5 Coption 6 Option 7 Option 8 Coption 9 Coption	
1 1 1				B, Alternative stic septage,	э4 рН:	adjustment	Option 10 Option 11	
2.9	Identify the treat attraction proper	ment process(es) used ties of sewage sludge	l at your fa ? (Check a	cility to reduc Il that apply.)	e pa	thogens in se	wage sludge or reduce the vector	
ра _р . 1	degritting	ry operations (e.g., slu)	age grindi	ng and [Thickening	(concentration)	
n 4	Composti	ion na				Anaerobic o Conditionin	Sigestion	
	Disinfection	on (e.g., beta ray irradi o, pasteurization)	iation, gam	ima ray		Dewatering beds, sludg	(e.g., centrifugation, studge drying e lagoons)	
	Heat dryin	ng or biogas canture and	recovery	[Thermal rec	duction	
2.10	Describe any oth 2) above.	ere if you have attached	atment or b	lending activi	ties appli	not identified	in Hems 2.8 and 2.9 (Part 2, Section pe.	
	Wet Sludge is dis treatment.	charched into Piney Cl	hapel lift si	tation. Piney (Chap	eel lift station	flows to Athens WWTP for final	
Prepa One c	ration of Sewage f Vector Attractio	Sludge Meeting Cell n Reduction Options	ing and Po 1 to 8	lutant Con	ent	rations, Clas	s A Pathogen Requirements, and	
2.11	Does the sewage concentrations in of the vector attra	sludge from your facil Table 3 of 40 CFR 50 action reduction require	lity meet th 3.13, Clas ements at 4	e ceiling con s A pathogen 40 CFR 503.3	cent red (3(b)	rations in Tabluction required (1)-(8) and is	e 1 of 40 CFR 503,13, the pollutan ments at 40 CFR 503.32(a), and on it land applied?	
2.12	U Yes	l of sewan	e sludae subi	ect f	below.			
	subsection that is	applied to the land:						
2.13	is sewage sludge the land?	subject to this subsec	tion place	d in bags or o	ther	containers for	r sale or give-away for application to	

. .

EP	'A Identifi	cation Number	NPDES Permit Number AL0056545	Elkmon	Facility I t Rural \	Name /illage WWTP	Form Approved 03/05/19 OMB No. 2040-0004					
° ,	Sale	or Give-Away in a	Bag or Other Container for A	pplication	to the L	and						
	2.14	Do you place sew	rage sludge in a bag or other co	ontainer for	sale or	give-away for land a	application?					
č. k		☐ Yes				No → SKIP to Iten below.	n 2.17 (Part 2, Section 2)					
-	2.15	Total dry metric to other container a	ons per 365-day period of sewa your facility for sale or give-aw	ge sludge p ay for appli	blaced in cation to	h a bag or b the land:						
	2.16	Attach a copy of a container for appl	all labels or notices that accomp ication to the land. re to indicate that you have atta	pany the se ached all lat	wage sli oels or n	udge being sold or on this applic	jiven away in a bag or other ation package.					
pen	□c	heck here once you	have completed items 2.14 to	2.16, then	→ skif	P to Part 2, Section	2, Item 2.32.					
tini	Shipi	ient Off Site for Treatment or Blending										
ge Cor	2.17	17 Does another facility provide treatment or blending of your facility's sewage sludge? (This question does not pertain to dewatered sludge sent directly to a land application or surface disposal site.)										
e Slud		Yes				No → SKIP to Iten below.	n 2.32 (Part 2, Section 2)					
from Sewag	2.18	Indicate the total sewage skudge. F for each facility.	1									
srived	2.19	Name of receiving facility Athens WWTP										
rial De		Mailing address (P. O. Box 1089	street or P.O. box)									
a Mate		City or town Athens		A	State L		ZIP code 35612					
on of		Contact name (fin Virgil White	Email address									
parati		Location address (street, route number, or other specific identifier) Same as mailing address 942 East Sanderfer Rd										
Pre		Athens			State		35611					
udge or	2.20	Total dry metric to facility:	ons per 365-day period of sewa	ge sludge p	rovided	to receiving	3.0					
vage Sl	2.21	Does the receivin reduce the vector	g facility provide additional treat attraction properties of sewage	tment to rea sludge from	luce pai n your l	thogens in sewage: acility?	sludge from your facility or					
of Sev		Yes			Ø	No → SKIP to Ite below.	m 2.24 (Part 2, Section 2)					
tion	2.22	Indicate the patho	gen class and reduction alterna	ative and th	e vector	attraction reduction	n option met for the sewage					
era		sludge at the rece	iving facility.			M						
jen		Pathogen	class and Reduction Alternat	IVE		Vector Attractio	on Reduction Option					
						applicable						
		Class A, Altern	ativo 2			ion 2						
			ative 3			ion 3						
		Class A. Alternative 4				C Ontion 4						
		Class A. Altern	ative 5			ion 5						
	Class A, Alternative 6					ion 6						
		Class B. Altern	ative 1			ion 7						
		Class B. Altern	ative 2		□ Opt	ion 8						
		Class B. Altern	ative 3		🗆 Opt	ion 9						
		Class B. Altern	ative 4		□ Opt							
1		Domestic sept	age, pH adjustment		D Opt	ion 11						

EP	A Identifa	cation Number	NPDES Permit Number AL0056545	Fa Elkmont Ru	ural	Name Village WWTP	Form Approved 03/05/19 OMB No. 2040-0004			
5	2.23	Which treatment vector attraction	process(es) are used at the rece properties of sewage sludge from	iving facility to n your facility?	o re (C	duce pathogens i heck all that apply	n sewage sludge or reduce the /.)			
-		Preliminan degritting)	y operations (e.g., sludge grindin	g and C]	Thickening (con	centration)			
		Stabilizatio	n]	Anaerobic diges	lion			
i e i		Compostin	9	C]	Conditioning				
11 16 96		Disinfection Disinfection,	n (e.g., beta ray irradiation, gami pasteurization)	^{ma ray}]	Dewatering (e.g. beds, sludge lag	, centrifugation, sludge drying oons)			
£		🔲 Heat dryin	9	Ľ]	Thermal reduction	n			
a		Methane o	r biogas capture and recovery	E.]	Other (specify)	erobic digestion			
inued	2.24	Attach a copy of information [®] requ	any information you provide the r irement of 40 CFR 503.12(g).	receiving facili	ity to	o comply with the	"notice and necessary			
Cont		Check he	ere to indicate that you have atta	ched material.	•					
Indge	2.25	Does the receivir application to the	ig facility place sewage sludge fr land?	om your facilit	ty in	a bag or other o	ontainer for sale or give-away for			
ge S		Yes		×]	No -> SKIP to below.	Item 2.32 (Part 2, Section 2)			
m Sewa	2.26	Attach a copy of Check he	all labels or notices that accompa are to indicate that you have atta	any the produc ched material.	ct b	eing sold or given	away.			
d fro	ЮC	eck here once you	have completed Items 2.17 to 2	2.26 (Part 2, S	ecti	on 2), then -> St	(IP to Item 2.32 (Part 2, Section 2)			
erive	be Land	ow. Application of Bulk Sewage Sludge								
ai D	2.27	is sewage sludge	from your facility applied to the	land?						
Materi		Yes	· · · · · · · · · · · · · · · · · · ·	E		No → SKIP to below.	Item 2.32 (Part 2, Section 2)			
on of a	2.28	Total dry metric to application sites:	ons per 365-day period of sewag	e sludge appli	ied	to all land				
arati	2.29	Did you identify a	Il land application sites in Part 2,	Section 3 of t	this	application?				
r Prep		🗌 Yes			No ➔ Submit a copy of the land application play with your application.					
ndge o	2.30	Are any land app material from sev	lication sites located in states oth rage sludge?	ner than the st	ate	where you gener	ate sewage sludge or derive a			
ge Sl		Yes Yes			l	No → SKIP to below.	Item 2.32 (Part 2, Section 2)			
f Sewa	2.31	Describe how you Attach a copy of I	a notify the NPDES permitting au the notification.	thority for the	stai	tes where the lan	d application sites are located.			
ouo		Check her	e if you have attached the explan	nation to the a	ppli	cation package.				
lerat	- Curlo	Check here if you have attached the notification to the application package.								
Ger	2 32	is seware sludne	from your facility placed on a su	rface disposal	l sit	o?	*			
π λ	2.02	Yes				No -> SKIP to below.	Item 2.39 (Part 2, Section 2)			
	2.33	Total dry metric to disposal sites per	ons of sewage sludge from your 365-day period:	facility placed	on	all surface				
v	2.34	Do you own or op	erate all surface disposal sites to	o which you se	end	sewage sludge for	or disposal?			
		□ Yes → S below.	KIP to Item 2.39 (Part 2, Section	^{,2)}		No				
	2,35	Indicate the total sludge.	number of surface disposal sites	to which you	sen	d your sewage				
		(Provide the infor	mation in Items 2.36 to 2.38 of P	art 2, Section	2, f	or each facility.)				
		Check here if you have attached additional sheets to the application package.								

EP/	A Identifi	cation Number	NPDES	Permit Number 0056545	Elkmo	Facility Name Int Rural Village V	VWTP	Form Approved 03/05/19 OMB No. 2040-0004									
-	2.36	Site name or numb	er of surfac	e disposal site you	do not o	wn or operate											
		Mailing address (st	eet or P.O.	box)													
		City or Town				State		ZIP Code									
		Contact Name (firs	and last)	Title		Phone Number		Email Address									
p	2.37	Site Contact (Check	all that ap	ply.)			tor										
Continue	2.38	Total dry metric ton disposal site per 36	s of sewage 5-day perio	e sludge from your d:	facility pl	aced on this surfa		ne w rokani santati un proce a stani na sp									
ge (Incin	eration					,										
ip i	2.39	Is sewage sludge fr	om vour fai	cility fired in a sewa	age sluda	e incinerator?											
vage SI		□ _{Yes}	,	,	-33	☑ No→ b	SKIP to Iterelow.	m 2.46 (Part 2, Section 2)									
rom Sev	2.40	Total dry metric tons of sewage studge from your facility fired in all sewage sludge incinerators per 365-day period:															
Derived fi	2.41	Stodge incinerators per 365-day period. Do you own or operate all sewage studge incinerators in which sewage studge from your facility is fired? Yes → SKIP to Item 2.46 (Part 2, Section 2) No															
of a Material	2.42	Indicate the total number of sewage sludge incinerators used that you do not own or operate. (Provide the information in Items 2.43 to 2.45 directly below for each facility.)															
ation o	2.43	Incinerator name or number															
repar		Mailing address (street or P.O. box)															
je or F		City or town				State		ZIP code									
Sludç		Contacl name (first	and last)	Title		Phone number		Email address									
ewage		Location address (s	lreet, route	number, or other s	specific id	entifier)		Same as mailing address									
n of S		City or town				State		ZIP code									
atio	2.44	Contact (check all th	at apply)														
ner			wner	المعادية المراجع المراجع المحاد		🔲 Incinei	ator operato	or									
Ge	2.45	Total dry metric tons sludge incinerator p	s of sewage er 365-day	e sludge from your period:	facility fir	ed in this sewage											
F	Dispo	sal in a Municipal S	olid Waste	Landfill		·····											
~	2.46	Is sewage sludge fro	om your fac	ility placed on a m	unicipal s	olid waste landfill	? \$200 - 5										
F		Yes Ves No → SKIP to Part 2, Section 3.															
	2.47	Indicate the total nu information in Items	mber of mu 2.48 to 2.5	nicipal solid waste 2 directly below for	r each fao	used. (Provide the illity.)											
		Check here if ye package.	ou have atta	ached additional st	heets to t	ne application		Check here if you have attached additional sheets to the application									

EP	'A Identific	cation Number	NPDES Pern AL005	nit Number 6545	Fi Elkmont R	acīlity Name ural Village WWTP	Form App OMB	roved 03/05/19 No. 2040-0004		
n	2.48	Name of landfill					and a figure datagement datagement datagement datagement datagement datagement datagement datagement datagement			
Sludge		Mailing address (s	treet or P.O. bo	x)						
wage		City or town				State	ZIP code			
m Sev		Contact name (firs	st and last)	Title		Phone number	Email addres	ŝŝ		
ad fro		Location address	(street, route nu	mber, or oth	her specific identi	fier)	🗆 Same as n	nailing address		
Derive		County			County code		٢	ONot available		
terial		City or town			State		ZIP code			
of a Ma nued	2.49	Total dry metric tons of sewage sludge from your facility placed in this municipal solid waste landfill per 365-day period:								
aration Contir	2.50	List the numbers of all other federal, state, and local permits that regulate the operation of this municipal solid waste landfill.								
Prepi		Permit Numbe	r			Type of Permit	n	, *		
e or										
Sludg				anardio cal-al-le						
age										
n of Sew	2.51	Attach to the appli disposal of sewage	cation information	on to detern inicipal solid	nine whether the 5 waste landfill (e	sewage sludge me .g., results of paint	ets applicable requiren filter liquids test and T	tents for CLP test).		
ratio		Check her	re to indicate you	u have attac	ched the requeste	ed information.				
Gene	2.52	Does the municipa	al solid waste lar	ndfill comply	with applicable	criteria set forth in	10 CFR 258?			
,		🗌 Yes			C] No				

EPA Ide	entification Number	NPDES Pennit No AL005654	umber 5	Fac Elkmont Rui	행y Name ral Village WWTP	Form Approved 03/05/19 OMB No. 2040-0004						
RT 2, SE	CTION 3 LAND API	LICATION OF BUL	K SEWAGE	SLUDGE (40	CFR 122.21(q)(9))							
3	.1 Does your facility	y apply sewage sludg	e to land?			,						
hu sh	🗋 Yes			Ŀ	No -> SKIP to	Part 2, Section 4.						
3	.2 Do any of the fol	lowing conditions app	oly?			1						
	 The sewage Table 3 of 4 attraction re The sewage You provide 	e sludge meets the of 0 CFR 503.13, Class eduction requirements e sludge is sold or giv the sewage sludge 1	eiling concer s A pathoger s at 40 CFR ren away in to another fa	ntrations in Tal n reduction red 503.33(b)(1)→ a bag or other acility for treatr	ble 1 of 40 CFR 503. quirements at 40 CFF (8); container for applica nent or blending.	12, the pollutant concentrations in 7 503.32(a), <i>and</i> one of the vector ation to the land; or						
	L Yes →	SKIP to Part 2, Secti	on 4.		_1 No							
- 191 - 3 . - 191 - 3 .	.3 Complete Sectio	n 3 for every site on v if you have attached	which the se sheels to th	wage sludge i e application p	s applied. ackage for one or m	ore land application sites.						
	entification of Land Application Site											
3	.4 Site name or nur	nber										
	Location address	s (street, route numbe	er, or other s	pecific identifi	er)	Same as mailing address						
i fenu i hok i hok i ng i i	County				County code	Not available						
ndge	City or town		State			IP code						
e N	Latitude/Longit	ude of Land Applica	ition Site (s	ee instructions		and a standard and an						
wag	불러, ⁵⁵ 는 10, 11, 11, 12, 13, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	Latitude		ник (Longitude						
N N N N N												
	Method of Determination											
	USGS map		🔲 Field s	survey		Other (specify)						
5 bhicatío	5 Provide a topogra	Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location Check here to indicate you have attached a topographic map for this site.										
A D	wner Information		2	е ^л е, н	ೆ ಗರ್ಷ 2 ಕಿಕ್ಷೆಸ್ - ಟ್ರಿ ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ಕ್	an a						
Бе ј 3.	.6 Are you the owner □ Yes →	er of this land applica SKIP to Item 3.8 (Pa	tion site? rt 2, Section	3) below.	No No							
່ 3.	.7 Owner name											
4 a 14 m 1 a 1 a 1 a 1 a 1 a 1 a 1 a	Mailing address ((street or P.O. box)	-									
in Ar Ar Ar Ar Ar Ar Ar Ar Ar Ar Ar Ar Ar	City or town				State	ZIP code						
	Contact name (fi	rst and last)	Title		Phone number	Email address						
Ap	plier Information		·	Walling a state								
3.	8 Are you the perso	on who applies, or who SKIP to Item 3.10 (P	no is respon art 2. Sectio	sible for applic	ation of, sewage slue	dge to this land application site?						
3.	9 Applier's name											
1 22 2 2 2 2 2 2 2 2 2 2	Mailing address ((street or P.O. box)										
40 m	City or town	· · · · · · · · · · · · · · · · · · ·			State	ZIP code						
*# * *	Contact name (fin	rst and last)	Title		Phone number	Email address						

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ÉP	A Identific	ation Number	NPDES Perm AL005	nit Number 5545	Fac Elkmont Ru	ility N ral V	lame illage WWTP	Form Approved 03/05/19 OMB No. 2040-0004			
	Site T	Vno / V	-					· · · · ·			
	3 10	Tune of land and	lication.				****				
	3,10		ural land		г	-1	Forest				
		Agricult	uranano			_	Forest				
		C Reclam	ation site		L		Public contact sit	e			
	1	D Other (describe)								
	Crop	or Other Vegetati	on Grown on Sit	e				2			
	3.11	What type of cro	p or other vegeta	tion is grown or	this site?						
· . • .	3.12	What is the nitro	gen requirement	for this crop or	vegetation?						
	Vecto	r Attraction Redu	iction								
Ρ,	3.13	Are the vector at applied to the lar	traction reduction nd application site	requirements	at 40 CFR 503	.33(Ł	o)(9) and (b)(10) m	et when sewage sludg e is			
-		☐ Yes			ב	em 3.16 (Part 2, Section 3)					
	3.14	Indicate which w	ector attraction re	duction option	s met. (Check	only	one response.)				
		Option 1	9 (injection below	land surface)	C		Option 10 (incorp	poration into soil within 6 hours)			
ned	3.15	Describe any tre	atment processes	s used at the la	nd application	site t	to reduce vector at	traction properties of sewage			
Contin		Check her	re if you have atta	iched your des	cription to the a	pplic	cation package.				
ge	Cumu	lative Loadings a	and Remaining A	llotments			- 	and the second			
e Slud	3.16	3.16 Is the sewage sludge applied to this site since July 20, 1993, subject to the cumulative pollutant loading r (CPLRs) in 40 CFR 503.13(b)(2)?									
vag		🗋 Yes			C		No 🔿 SKIP to Pa	rt 2, Section 4.			
of Bulk Sev	3.17	Have you contact be applied to aso July 20, 1993?	ted the NPDES p certain whether bu	ermitting authout a stud	rity in the state Ige subject to (whe	ere the bulk sewag Rs has been applie	e sludge subject to CPLRs will ad to this site on or since			
ication		🗋 Yes			not be applied to this site. S						
ldd	3.18	Provide the follow	wing information a	about your NPE	ES permitting	auth	nority:	· · · · · · · · · · · · · · · · · · ·			
φp	0	NPDES permittic	o authority name	1							
an		Contract porson	g dutiong name								
. —		Contact person	100 (000 100 10 10 10 10 10 10 10 10 10 10 10								
		l elephone numb) er		······································						
· · ·		Email address	1000000.000000000000000000000000000000								
	3.19	Based on your in	iquiry, has bulk si	ewage sludge s	ubject to CPLF	Rs be	een applied to this	site since July 20, 1993?			
		🔲 Yes			Ľ]	No 🗲 SKIP to P	art 2, Section 4.			
	3.20 Provide the following information for every facility other than yours that is sending, or h subject to CPLRs to this site since July 20, 1993. If more than one such facility sends a attach additional pages as necessary.							as sent, bulk sewage sludge sewage sludge to this site,			
	Facility name										
		Mailing address	(street or P.O. bo	x)							
		City or town				Sta	ate	ZIP code			
		Contact name (fi	rst and last)	Title		Pħ	one number	Email address			

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ËP	A Identific	ation Number	NPDES Permit Number AL0056545	Elkmont	Facility Name Rural Village V	VWTP	Form Approved 03/05/19 OMB No. 2040-0004					
PART 2	SECTI	ON 4 SURFACE	DISPOSAL (40 CFR 122	.21(a)(10)).			a s s s s s s s s s s s s s s s s s s s					
1 8 1 1 1 4 4 1 4 1 4 4 1 4 1 4 4 1 4 1 4 4 4 4	4.1	Do you own or op	erate a surface disposal	site?								
		🔲 Yes	,		V	No 🗲 SKIP I	to Part 2, Section 5.					
	4.2	Complete all item	s in Section 4 for each ac	tive sewage slud	ge unit that you	own or operation	te.					
		Check here sewage slu	to indicate that you have dge units.	attached materi	al to the applica	llion package f	or one or more active					
	Inform	nation on Active S	ewage Sludge Units 👘	*************************************	the second second	្រ ខ្លាំង នៃទំនេះ ខ្លាំង នៅឆ្នាំ ខ្លាំ ខ ខ្លាំ ខ្លាំ ខ្លា						
	4.3	Unit name or nur	nber									
		Mailing address	street or P.O. box)									
ing start ing ing ing ing ing ing ing ing ing ing ing ing ing		City or town			St	ate	ZIP code					
		Contact name (fi	rst and last}	Title	Pł	ione number	Email address					
		Location address	(street, route number, or	entifier)	,	Same as mailing address						
		County			Co	ounty code	Not available					
		City or town			St	ate	ZIP code					
		Latitude/Longiti	de of Active Sewage Sl	udge Unit (see i	nstructions)							
e dont e e e e e e e e e e e e e e e e e e e			Latitude		ARE THE REAL	Long	jitude'					
sai			0 1 D			• •	"					
spo		Method of Deter		н п — н Ул 2, к -	na a terra - Esterador e en							
ace D		USGS map Field survey Other (specify)										
Surf	4.4	Provide a topogra location.	aphic map (or other appro	priate map if a to	pographic map	ic map is unavailable) that shows the site						
R R R R R		Check here to indicate that you have completed and attached a topographic map.										
	4.5	Total dry metric t per 365-day perio	ons of sewage sludge pla od:	ced on the active	sewage sludge	e unit						
	4.6	Total dry metric t over the life of the	ons of sewage sludge pla e unit:	ced on the active	sewage sludge	e unit	÷					
	4.7	Does the active s (cm/sec)?	ewage sludge unit have a	a liner with a max	imum permeab	ility of 1 × 10-7	centimeters per second					
		🔲 Yes				No → SKIP 4) below.	to Item 4.9 (Part 2, Section					
	4.8	Describe the line	r.									
		🔲 Check here	to indicate that you have	attached a desc	ription to the ap	plication packa	age.					
ta sa Mili. Tanàna S				. 1			· · ·					
	4.0	Deep the pather		looshote estt4	inn nucle-0							
	4.9	Does the active s	ewage sludge unit have a	e leachate collect	ion system?	No -> SKIP	to Item 4 11 (Part 2 Section					
		Yes	· · · · · · · · · · · · · · · · · · ·			4) below.						
Harris Para	4.10	Describe the leachate collection system and the method used for leachate disposal and provide the numbers of any federal, state, or local permit(s) for leachate disposal.										
		Check here	e to indicate that you have	attached the de	scription to the	application par	kage.					

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EPA Identification Number			NPDES Permit Nur AL0056545	ber	er Facility Name Elkmont Rural Village WWTP		WWTP	Form Approved 03/05/19 OMB No. 2040-0004			
	4.11	Is the boundary site?	of the active sewage s	ludge uni	t less than 150 mete	ers froi	n the property	line of the surface disposal			
		🔲 Yes	_	No → SKIP Section 4) b	to item 4.13 (Part 2, elow.						
	4.12	Provide the actual distance in meters:						meters			
b	4.13	Remaining capacity of active sewage sludge unit in dry metric tons:						dry metric tons			
	4.14	Anticipated closure date for active sewage sludge unit, if known (MM/DD/YYYY):									
	4.15	Attach a copy of	sewage sludge	unit.							
	ł	Check her	plan to the app	plication package.							
	Sewag	age Sludge from Other Facilities									
	4.16	Is sewage sludg	other than you	r facility?							
				-		П	No 🗲 SKIP	to Item 4.21 (Part 2, Section			
	L						4) below.				
	4.17	Indicate the total number of facilities (other than your facility) that send sewage sludge to this active sewage sludge unit. (Complete Items 4.18 to 4.20 directly below for each such facility.)									
		Check here the applica	e to indicate that you hat tion package.	ave attac	hed responses for e	ach fa	cility to				
bed	4.18	Facility name									
ontint		Mailing address (street or P.O. box)									
sal Cc		City or town				State	€	ZIP code			
Dispo		Contact name (f	irst and last)	Title		Pho	ne number	Email address			
rface	4.19	Indicate the pathogen class and reduction alternative and the vector attraction reduction sludge before leaving the other facility.						option met for the sewage			
ŝu		Patho	gen Class and Redu	tion Alte	ernative	Γ	Vector Attrac	tion Reduction Option			
		□ Not applicable	9	🗆 Not		Not applicable					
		Class A, Alter	native 1				ption 1				
		Class A, Alternative 2									
		Class A, Alternative 3				Coption 3					
		Class A, Alternative 4				U Option 4					
	-	Class A, Alternative 5									
-		□ Class A, Alternative 6 □ Class B, Alternative 1 □ Class B, Alternative 2 □ Class B, Alternative 3									
*							□ Ontion 8				
							Option 9				
		Class B. Alter	native 4		Option 10						
ĸ		Domestic septage, pH adjustment Option						Option 11			
	4.20	Which treatment	gens in sewage	e sludge or reduce the vector							
		attraction proper	ties of sewage sludge	heck all that ap	pply.)						
		Preliminary operations (e.g., sludge grinding and degritting)					Thickening (concentration)				
		Stabilizatio	n			Anaerobic digestion					
		Composition									
			y n (n a hoto rowing die	tion an-	100 501	Conditioning Developing (a.g. contribution of the second					
		irradiation,	Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)					drying beds, sludge lagoons)			
		🔲 Heat dryin	g				Thermal redu	iction			
		Methane o	r biogas capture and r	Other (specify)							

EF	PA Identifi	cation Number	NPDES Permit Number AL0056545	Facility Na Elkmont Rural Vil	me lage V	/WTP	Form Approved 03/05/19 OMB No. 2040-0004				
	Vecto	Vector Attraction Reduction									
	4.21	1 Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?									
		Option 9	(Injection below and surface)			Option 11 (sludge unit	Covering active sewage daily)				
	l	Option 10 (Incorporation into soil within 6 hours)				None					
	4.22	Describe any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge. Check here if you have attached your description to the application package.									
	Groun	Groundwater Monitoring									
	4.23	Is groundwater monitoring currently conducted at this active sewage sludge unit, or are groundwater monitoring data otherwise available for this active sewage sludge unit?									
		🗋 Yes				No → SKIP Section 4) b	elow.				
g	4.24	Provide a copy of available groundwater monitoring data.									
tinue		Check here to indicate you have attached the monitoring data.									
face Disposal Con	4.25	Describe the well locations, the approximate depth to groundwater, and the groundwater monitoring procedures used to obtain these data. Check here if you have attached your description to the application package.									
Su	4.26	6 Has a groundwater monitoring program been prepared for this active sewage sludge unit?									
-		🛛 Yes				No → SKIP Section 4) b	to Item 4.28 (Part 2, elow.				
	4.27	Submit a copy of the groundwater monitoring program with this permit application.									
a a'		Check here to indicate you have attached the monitoring program.									
	4.28	B Have you obtained a certification from a qualified groundwater scientist that the aquifer below the active sewag sludge unit has not been contaminated?									
		sludge unit has n	ot been contaminated?	groundwater obiona							
		sludge unit has n	ot been contaminated?	groundwater obtain		No -> SKIP Section 4) b	to Item 4.30 (Part 2, elow.				
1	4.29	sludge unit has n	ot been contaminated? the certification with this permit	application.		No → SKIP Section 4) b	to Item 4.30 (Part 2, elow.				
	4.29	Sludge unit has n	ot been contaminated? the certification with this permit re to indicate you have attached	application.	he app	No -> SKIP Section 4) b	to Item 4.30 (Part 2, elow.				
	4.29 Site-S	sludge unit has n Submit a copy of Check he Decific Limits	ot been contaminated? the certification with this permit re to indicate you have attached	application.	D he app	No → SKIP Section 4) b dication packa	to Item 4.30 (Part 2, elow. age.				
ı K	4.29 Site-S 4.30	sludge unit has n Submit a copy of Check he Check he Are you seeking Yes	ot been contaminated? the certification with this permit re to indicate you have attached site-specific pollutant limits for t	application. I the certification to the sewage studge pla	he app aced c	No \rightarrow SKIP Section 4) b blication packators on the active s No \rightarrow SKIP	to Item 4.30 (Part 2, elow. age. ewage sludge unit? to Part 2, Section 5.				
,	4.29 Site-S 4.30	sludge unit has n Submit a copy of Check he Decific Limits Are you seeking Yes Submit informatic	ot been contaminated? the certification with this permit re to indicate you have attached site-specific pollutant limits for t on to support the request for site	application. I the certification to the sewage sludge plate- specific pollutant lim	he app aced o	No \rightarrow SKIP Section 4) b slication packa on the active s No \rightarrow SKIP In this applica	to Item 4.30 (Part 2, elow. age. ewage sludge unit? to Part 2, Section 5. tion.				

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E	PA Identifi	cation Number	NPDES Permit Number AL0056545	Facility Name Elkmont Rural Village WWTP		Form Approved 03/05/19 OMB No. 2040-0004				
PART	2. SECT	ION 5 INCINERA	TION (40 CFR 122.21(q)(11))			e				
* *	Incine	rator Information	R ¹¹¹ R			2 x x				
•	5.1	Do you fire sewage sludge in a sewage sludge incinerator?								
		LI Yes ∠ No → SKIP to END.								
1	5.2	ter								
13 19 1		Check here to indicate that you have attached information for one or more incinerators.								
	5.3	Incinerator name or number								
***		Location address (street, route number, or other specific identifier)								
		County			County code	Not available				
		City or town	City or town State		State	ZIP code				
		Latitude/Longitu	ude of Incinerator (see instruct	ions)	uř	х ь				
7 *		·* *	Latitude	p.	Longitude					
			а <i>г и</i>		0	, м 				
		Method of Deter	mination		a					
		USGS map	🖸 Field	survey		Other (specify)				
	Amou	nt Fired			*	: n 2				
, "	5.4	4 Dry metric tons per 365-day period of sewage sludge fired in the sewage sludge incinerator.								
ţ,	Beryll	ium NESHAP	ал —	r						
cinera	5.5	Submit information, test data, and a description of measures taken that demonstrate whether the sewage sludge incinerated is beryllium-containing waste and will continue to remain as such.								
E		Check here to indicate that you have attached this material to the application package.								
1.	5.6	Is the sewage sludge fired in this incinerator "beryllium-containing waste" as defined at 40 CFR 61.31?								
a		🔲 Yes		○ No → SKIP to Item 5.8 (Part 2, Section 5) below.						
5.7 Submit with this application a complete report of the latest beryllium emission rate testin ongoing incinerator operating parameters indicating that the NESHAP emission rate limi will continue to be met.					esting and documentation of limit for beryllium has been and					
	L	Check here to indicate that you have attached this information.								
	Mercu	ercury NESHAP								
	5.8	Is compliance with the mercury NESHAP being demonstrated via stack testing?								
		L Yes L No → SKIP to Item 5.11 (Part 2, Section 5) below								
đ.	5.9	Submit a complete report of stack testing and documentation of ongoing incinerator operating parameters indicating that the incinerator has met and will continue to meet the mercury NESHAP emission rate limit.								
		Check here to indicate that you have attached this information.								
4	5.10	Provide copies of mercury emission rate tests for the two most recent years in which testing was conducted.								
2 4 5		Check here to indicate that you have attached this information.								
	5.11	5.11 Do you demonstrate compliance with the mercury NESHAP by sewage sludge sampling?								
4		Yes			below.	eni 5. 13 (mari 2, Section 5)				
	5.12	Submit a complete report of sewage sludge sampling and documentation of ongoing incinerator operating parameters indicating that the incinerator has met and will continue to meet the mercury NESHAP emission rate limit.								
0		Check here	e to indicate that you have attac	hed this inform	ation.					

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E	PA Identific	ation Number	NPDES Permit Number AL0056545	Fad Elkmont Run	ity Name al Village WWT	Form Approved 03/05/19 CP OMB No. 2040-0004					
	Disper	sion Factor									
د	5.13	Dispersion factor in micrograms/cubic meter per gram/second:									
n, b = 1	5.14	Name and type of dispersion model:									
¢	5.15	Submit a copy of the modeling results and supporting documentation.									
		Check here to indicate that you have attached this information.									
	Contro	ontrol Efficiency									
	5.16	Provide the cont	Provide the control efficiency, in hundredths, for each of the pollutants listed below.								
			Pollutant		Control Effic	iency, in Hundredths					
		Arsenic									
n 1		Cadmium									
		Chromium		A 248							
		Lead				na ang tang tang tang tang tang tang tan					
		Nickel									
¢	5 17	Attach a conv of	the results or performance test	ting and supporti	na documentat	ion (including testing dates)					
	J.17	Attach a copy of the results or performance testing and supporting documentation (including testing dates).									
u ^{be} st w	Piek-S	pacific Concepte	ation for Chromium								
	5 18	Provide the risk-	specific concentration (RSC) u	sed for chromium	in	and a draw the second					
	0.10	micrograms per	cubic meter:								
ned	5.19	Was the RSC de	termined via Table 2 in 40 CFF	R 503.43?							
ontin		🗌 Yes	to Item 5.21 (Part 2, Section 5) belo								
5 ·	5.20	Identify the type	of incinerator used as the basis	s.	Second Str.						
eratic		Fluidized	bed with wet scrubber		Other types	with wet scrubber					
Incin		Fluidized electrosta	bed with wet scrubber and wet tic precipitator		Other types precipitator	with wet scrubber and wet electrosta					
	5.21	Was the RSC determined via Table 6 in 40 CFR 503.43 (site-specific determination)?									
		🗋 Yes			No 🔿 SKIF	P to Item 5.23 (Part 2, Section 5)					
	5.22	22 Provide the decimal fraction of hexavalent chromium concentration to total									
	UILL	chromium concentration in stack exit gas:									
	5.23	concentrations, including the date(s)									
	any test(s), with this application.										
	Incine	L Oneck here to indicate that you have attached this information. L Not applicable									
٠	5.24	Do you monitor total hydrocarbons (THC) in the exit gas of the sewage sludge incinerator?									
				····· 3							
		LJ Yes			NO						
	5.25	Do you monitor o	arbon monoxide (CO) in the ex	kit gas of the sew	age sludge inc	cinerator?					
		Yes			No						
	5.26	Indicate the type	of sewage sludge incinerator.								
	5.27	Incinerator stack	height in meters:								
,	5.28 Indicate whether the value submitted in Item 5.27 is (check only one response):										
		Actual sta	ck height		Creditable st	tack height					

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EPA Identification Number			NPDES Parmit Number AL0056545	Elkmor	Facility Name at Rural Village WWTP	Form Approved 03/05/19 OMB No. 2040-0004				
с.	Регбол	mance Test Oper	ating Parameters	L						
	5.29	Maximum performance test combustion temperature:								
	5.30	Performance test sewage sludge feed rate, in dry metric tons/day								
	5.31	Indicate whether value submitted in Item 5.30 is (check only one response):								
		Average u			Maximum design					
	5.32	Attach supporting documents describing how the feed rate was calculated. Check here to indicate that you have attached this information.								
¢ .	5.33	Submit information documenting the performance test operating parameters for the air pollution control device(s) used for this sewage sludge incinerator.								
	Monito	rico Fauinment	n an			C S				
×.	5.34	List the equipme	nt in place to monitor the listed	parameter	S.					
ai.		Parameter			Equipment in Place for Monitoring					
		Total hydrocarbo	ons or carbon monoxide							
pər		Percent oxygen			na program de la companya de la comp					
ontint		Percent moisture								
tion C		Combustion temperature								
cinera		Other (describe)			anguta 1900 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -					
ŭ	Air Pol	Air Pollution Control Equipment								
	5.35	.35 List all air pollution control equipment used with this sewage sludge incinerator.								
		Check here if you have attached the list to the application package for the noted incinerator.								
						and the second				
		-								
¢										
*										
		12.30 g Mir Kill (1990)	¥		a dina matana katao ata mana na sa mana na sa mana na sa mana na mana na mana na mana na mana na mana na mana m	La companyee service and the service and the service and the service service and the service se				

END of PART 2

Submit completed application package to your NPDES permitting authority.

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Elkmont Rural Village WWTP Sludge Storage Practices

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