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JUNE 30, 2026

MR. ANDREW CHORNEY
TECHNICAL SERVICES MANAGER
ESSITY PROFESSIONAL HYGIENE NORTH AMERICA, LLC - BARTON OPERATIONS
1834 HALEY DRIVE
CHEROKEE, AL 35616

RE: REVISED DRAFT PERMIT
NPDES PERMIT NUMBER AL0074667

Dear Mr. Chorney:

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.

Our records indicate that you have utilized the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs). The Department transitioned from the E2 Reporting System to the Alabama Environmental Permitting and Compliance System (AEPACS) for the submittal of DMRs 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:

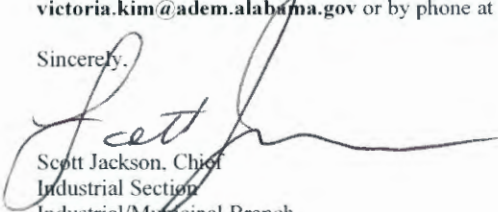
1. The user has logged in to E2 since October 1, 2019; and
2. The E2 user account is set up using a unique email address.

E2 users that met the above criteria will only need to establish an ADEM Web Portal account (<https://prd.adem.alabama.gov/awp>) 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.

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.

If you have questions regarding this permit or monitoring requirements, please contact Victoria Kim by e-mail at victoria.kim@adem.alabama.gov or by phone at (334) 271-7895.

Sincerely,


Scott Jackson, Chief
Industrial Section
Industrial/Municipal Branch
Water Division

Enclosure: Draft Permit

pc via website: Montgomery Field Office
EPA Region IV
U.S. Fish & Wildlife Service
AL Historical Commission
Advisory Council on Historic Preservation
Department of Conservation and Natural Resources



Birmingham Office
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Office
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)

Coastal Office
1615 South Broad Street
Mobile, AL 36605
(251) 450-3400
(251) 479-2593 (FAX)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: ESSITY PROFESSIONAL HYGIENE NORTH AMERICA, LLC

FACILITY LOCATION: ESSITY PROFESSIONAL HYGIENE NORTH AMERICA, LLC
1834 HALEY DR
CHEROKEE, ALABAMA 356165364
COLBERT COUNTY

PERMIT NUMBER: AL0074667

RECEIVING WATERS: 001 - TENNESSEE RIVER (PICKWICK LAKE)
002 - MULBERRY CREEK
003 - UNNAMED TRIBUTARY TO MULBERRY CREEK
02A - MULBERRY CREEK

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

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

DRAFT

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS**A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS**

DSN0011: Treated process wastewaters including boiler area wastewaters, cooling tower blowdown, converting printing wastewaters, maintenance waters and stormwater runoff from process areas 3/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	deg F	Monthly	Grab	All Months
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	5211 Monthly Average	9621 Maximum Daily	lbs/day	*****	*****	*****	*****	2X Weekly	Composite	All Months
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	6815 Monthly Average	13128 Maximum Daily	lbs/day	*****	*****	*****	*****	2X Weekly	Composite	All Months
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr. May, Jun. Jul, Aug, Sep, Oct
Nitrite Plus Nitrate Total I Det. (As N) (00630) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr. May, Jun. Jul, Aug, Sep, Oct
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr. May, Jun. Jul, Aug, Sep, Oct

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

DSN0011 (Continued): Treated process wastewaters including boiler area wastewaters, cooling tower blowdown, converting printing wastewaters, maintenance waters and stormwater runoff from process areas 3/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Pentachlorophenol (39032) Effluent Gross Value 4/	*****	0.0 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Totalizer	All Months
Certification - River Monitoring (51946) 5/ Effluent Gross Value	*****	*****	*****	*****	*****	0 Maximum Daily	Yes=0;No =1	Monthly	Not Applicable	May, Jun, Jul, Aug, Sep
Trichlorophenol (81848) Effluent Gross Value 4/	*****	0.0 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ In lieu of monitoring for these parameters, the permittee may certify non-use of chlorophenolic containing compounds according to the requirements at 40 CFR 430.95 by entering *9 on the discharge monitoring report.
- 5/ Reporting for this parameter will be in compliance with Part IV.E.6.

DSN001T: Treated process wastewaters including boiler area wastewaters, cooling tower blowdown, converting printing wastewaters, maintenance waters and stormwater runoff from process areas 3/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Toxicity, Ceriodaphnia Acute (61425) 4/ Effluent Gross Value	*****	0 Single Sample	pass=0; fail=1	*****	*****	*****	*****	Annually	Grab	All Months
Toxicity, Pimephales Acute (61427) 4/ Effluent Gross Value	*****	0 Single Sample	pass=0; fail=1	*****	*****	*****	*****	Annually	Grab	All Months

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OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.**

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.D for Effluent Toxicity Limitations and Biomonitoring Requirements.

DSN002S: Stormwater from process areas and DSN02A1 3/ 4/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Semi-Annually	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15.0 Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Semi-Annually	Estimate	All Months

**THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE
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- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

DSN003S: Stormwater runoff from mill access road 3/ 4/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Semi-Annually	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15.0 Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Semi-Annually	Calculated	All Months
Chemical Oxygen Demand (COD) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months

**THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE
OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.**

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

DSN02A1: Wastewater resulting from paper machine basement overflow, GeoTube ® Filtrate, overflow of treated river water, commissioning water, water treatment tank draining, fire suppression system test water, steam condensate, and boiler area waters including boiler blowdown, pump seal water and sand filter back-flush water 3/ 4/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	deg F	Monthly	Grab	All Months
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Monthly	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months
Zinc Total Recoverable (01094) 5/ Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Monthly	Grab	All Months
Chromium Total 5/ Recoverable (01118) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Monthly	Grab	All Months
Copper Total Recoverable (01119) 5/ Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Monthly	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Monthly	Estimate	All Months
Chlorine, Total Residual (50060) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months

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- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ Monitored should be conducted on days a discharge is occurring without a qualifying storm event, as defined by Part IV.B.
- 5/ For purposes of compliance with these limitaitons, "Total" and "Total Recoverable" shall be considered equivalent.

DSN02A1 (Continued): Wastewater resulting from paper machine basement overflow, GeoTube ® Filtrate, overflow of treated river water, commissioning water, water treatment tank draining, fire suppression system test water, steam condensate, and boiler area waters including boiler blowdown, pump seal water and sand filter back-flush water 3/ 4/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Cyanide, Free Available (51173) Effluent Gross Value	*****	*****	*****	*****	*****	22.0 Maximum Daily	ug/l	Monthly	Grab	All Months
Solids, Total Dissolved (TDS) (70296) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ Monitored should be conducted on days a discharge is occurring without a qualifying storm event, as defined by Part IV.B.

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit.

2. Test Procedures

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

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance; however, should EPA approve a method with a lower minimum level during the term of this permit the permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

- c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit using the most sensitive EPA approved method. 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.

3. 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.

4. Records Retention and Production

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 shall not be submitted unless requested.

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.

5. 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. The permittee shall develop and maintain quality assurance procedures to ensure proper operation and maintenance of all equipment and instrumentation. The quality assurance procedures shall include the proper use, maintenance, and installation, when appropriate, of monitoring equipment at the plant site.

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

- a. The permittee shall conduct the required monitoring in accordance with the following schedule:

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.

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 may be done anytime during the quarter, unless restricted elsewhere in this permit, but it should be submitted with the last DMR due for the quarter, i.e., (March, June, September and December DMR's).

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 submitted with the last DMR for the month of the semiannual period, i.e. (June and December DMR's).

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 submitted with the December DMR.

- b. The permittee shall submit discharge monitoring reports (DMRs) on the forms provided by the Department and in accordance with the following schedule:

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 (MONTH, YEAR)**. 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.

REPORTS OF QUARTERLY TESTING shall be submitted on a **quarterly** basis. The first report is due on the **28th day of [Month, Year]**. 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.

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.

REPORTS OF ANNUAL TESTING shall be submitted on an annual basis. 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.

- 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 5 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 the 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.

Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.

- (3) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
 - (4) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.
 - (5) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, 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
Water Division
Office of Water Services
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
Water Division
Office of Water Services
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
Water Division
Post Office Box 301463
Montgomery, Alabama 36130-1463**

Certified and Registered Mail shall be addressed to:

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

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

2. Noncompliance Notification

a. 24-Hour Noncompliance Reporting

The permittee shall report to the Director, within 24-hours of becoming aware of the noncompliance, any noncompliance which may endanger health or the environment. This shall include but is not limited to the following circumstances:

- (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) threatens human health or welfare, fish or aquatic life, or water quality standards;
- (3) 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);
- (4) contains a quantity of a hazardous substance which has been determined may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (5) exceeds any discharge limitation for an effluent characteristic as a result of an unanticipated bypass or upset; and
- (6) is an unpermitted direct or indirect discharge of a pollutant to a water of the state (unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision).

The permittee shall orally report the occurrence and circumstances of such discharge to the Director within 24-hours after the permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.2.c no later than five (5) days after becoming aware of the occurrence of such discharge.

- b. If for any reason, the permittee's discharge does not comply with any limitation of this permit, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.2.c below, such report shall be submitted with the next Discharge Monitoring Report required to be submitted by Part I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Any written report required to be submitted to the Director or Designee by Part I.C.2 a. or b. shall be submitted using a Noncompliance Notification Form (ADEM Form 421) available on the Department's website (<http://adem.alabama.gov/DeptForms/Form421.pdf>) and include the following information:

- (1) A description of the discharge and cause of noncompliance;

- (2) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
- (3) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

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

2. Termination of Discharge

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

3. Updating Information

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

4. Duty to Provide Information

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

5. Cooling Water and Boiler Water Additives

- a. The permittee shall notify the Director in writing not later than thirty (30) days prior to instituting the use of any biocide corrosion inhibitor or chemical additive in a cooling or boiler system, not identified in the application for this permit, from which discharge is allowed by this permit. Notification is not required for additives that do not contain a heavy metal(s) as an active ingredient and that pass through a wastewater treatment system prior to discharge nor is notification required for additives that should not reasonably be expected to cause the cooling water or boiler water to exhibit toxicity as determined by analysis of manufacturer's data or testing by the permittee. Such notification shall include:
 - (1) name and general composition of biocide or chemical;
 - (2) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach;
 - (3) quantities to be used;
 - (4) frequencies of use;
 - (5) proposed discharge concentrations; and
 - (6) EPA registration number, if applicable.
- b. The use of a biocide or additive containing tributyl tin, tributyl tin oxide, zinc, chromium or related compounds in cooling or boiler system(s), from which a discharge regulated by this permit occurs, is prohibited except as exempted below. The use of a biocide or additive containing zinc, chromium or related compounds may be used in special circumstances if (1) the permit contains limits for these substances, or (2) the applicant demonstrates during the application process that the use of zinc, chromium or related compounds as a biocide or additive will not pose a reasonable potential to violate the applicable State water quality standards for these substances. The use of any additive, not identified in this permit or in the

application for this permit or not exempted from notification under this permit is prohibited, prior to a determination by the Department that permit modification to control discharge of the additive is not required or prior to issuance of a permit modification controlling discharge of the additive.

6. Permit Issued Based on Estimated Characteristics

- a. If this permit was issued based on estimates of the characteristics of a process discharge reported on an EPA NPDES Application Form 2D (EPA Form 3510-2D), the permittee shall complete and submit an EPA NPDES Application Form 2C (EPA Form 3510-2C) no later than two years after the date that discharge begins. Sampling required for completion of the Form 2C shall occur when a discharge(s) from the process(s) causing the new or increased discharge is occurring. If this permit was issued based on estimates concerning the composition of a stormwater discharge(s), the permittee shall perform the sampling required by EPA NPDES Application Form 2F (EPA Form 3510-2F) no later than one year after the industrial activity generating the stormwater discharge has been fully initiated.
- b. This permit shall be reopened if required to address any new information resulting from the completion and submittal of the Form 2C and or 2F.

E. SCHEDULE OF COMPLIANCE

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

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

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

PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Maintenance

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

2. Best Management Practices

- 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. Spill Prevention, Control, and Management

The permittee shall provide spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a water of the state or a publicly or privately owned treatment works. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and which shall prevent the contamination of groundwater and such containment system shall be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided.

B. OTHER RESPONSIBILITIES

1. Duty to Mitigate Adverse Impacts

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

2. Right of Entry and Inspection

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

- a. 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;
- b. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- c. inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

C. BYPASS AND UPSET

1. Bypass

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:

- (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;
 - (2) It enters the same receiving stream as the permitted outfall; and
 - (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
- (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
 - (3) The permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
- d. The permittee has the burden of establishing that each of the conditions of Provision II.C.1.b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

2. Upset

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

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

1. Duty to Comply

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

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 Blvd., Montgomery, AL 36130.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE**1. Duty to Reapply or Notify of Intent to Cease Discharge**

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

2. Change in Discharge

- a. The permittee shall apply for a permit modification at least 180 days in advance of any facility expansion, production increase, process change, or other action that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant such that existing permit limitations would be exceeded or that could result in an additional discharge point. This requirement 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.
- b. The permittee shall notify the Director as soon as it is known or there is reason to believe:
 - (1) That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (i) one hundred micrograms per liter;
 - (ii) two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony;
 - (iii) five times the maximum concentration value reported for that pollutant in the permit application; or
 - (2) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

- (i) five hundred micrograms per liter;
- (ii) one milligram per liter for antimony;
- (iii) ten times the maximum concentration value reported for that pollutant in the permit application.

3. Transfer of Permit

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

4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
 - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
 - (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
 - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
 - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
 - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
 - (8) To agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(a) of the FWPCA or for fundamentally different factors;
 - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
 - (10) When required by the reopener conditions in this permit;
 - (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);

- (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
- (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
- (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

5. Permit Termination

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

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

6. Permit Suspension

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

7. Request for Permit Action Does Not Stay Any Permit Requirement

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. DISCHARGE OF WASTEWATER GENERATED BY OTHERS

The discharge of wastewater, generated by any process, facility, or by any other means not under the operational control of the permittee or not identified in the application for this permit or not identified specifically in the description of an outfall in this permit is not authorized by this permit.

PART III: OTHER PERMIT CONDITIONS

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, trespass, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

D. AVAILABILITY OF REPORTS

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

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
3. Construction has begun when the owner or operator has:
 - a. begun, or caused to begin as part of a continuous on-site construction program:
 - (1) any placement, assembly, or installation of facilities or equipment; or
 - (2) significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is 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 the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.

F. COMPLIANCE WITH WATER QUALITY STANDARDS

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

G. GROUNDWATER

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

H. DEFINITIONS

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

3. Arithmetic Mean – means the summation of the individual values of any set of values divided by the number of individual values.
4. AWPCA - means the Alabama Water Pollution Control Act.
5. BOD – means the five-day measure of the pollutant parameter biochemical oxygen demand.
6. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.
7. CBOD – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. Daily discharge - means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
9. Daily maximum - means the highest value of any individual sample result obtained during a day.
10. Daily minimum - means the lowest value of any individual sample result obtained during a day.
11. Day - means any consecutive 24-hour period.
12. Department - means the Alabama Department of Environmental Management.
13. Director - means the Director of the Department.
14. Discharge - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other wastes into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(8).
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 5 equal volume samples collected at constant time intervals of not more than 2 hours 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, other than for fecal coliform bacteria, the arithmetic mean of the entire composite or grab samples taken for the daily discharges collected in one month period. The monthly average for fecal coliform bacteria is the geometric mean of daily discharge samples collected in a 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. Permit application - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
31. 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).
32. Pollutant - includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
33. 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".
34. Publicly Owned Treatment Works – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
35. Receiving Stream – means the "waters" receiving a "discharge" from a "point source".
36. 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.
37. 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.
38. Solvent – means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.
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 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. a sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
 - 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." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
46. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
47. Weekly (7-day and calendar week) Average - is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

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

PART IV: ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS**A. BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS****1. BMP Plan**

The permittee shall develop and implement a Best Management Practices (BMP) Plan which prevents, or minimizes the potential for, the release of pollutants from ancillary activities, including material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations, and sludge and waste disposal areas, to the waters of the State through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

2. Plan Content

The permittee shall prepare and implement a best management practices (BMP) plan, which shall:

- a. Establish specific objectives for the control of pollutants:
 - (1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.
 - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g. precipitation), or circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- b. Establish specific best management practices to meet the objectives identified under paragraph a. of this section, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented;
- c. Establish a program to identify and repair leaking equipment items and damaged containment structures, which may contribute to contaminated stormwater runoff. This program must include regular visual inspections of equipment, containment structures and of the facility in general to ensure that the BMP is continually implemented and effective;
- d. Prevent the spillage or loss of fluids, oil, grease, gasoline, etc. from vehicle and equipment maintenance activities and thereby prevent the contamination of stormwater from these substances;
- e. Prevent or minimize stormwater contact with material stored on site;
- f. Designate by position or name the person or persons responsible for the day to day implementation of the BMP;
- g. Provide for routine inspections, on days during which the facility is manned, of any structures that function to prevent stormwater pollution or to remove pollutants from stormwater and of the facility in general. Routine inspections should be done at a frequency to ensure that the BMP is continually implemented and effective and in no case less frequent than once per year;
- h. Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;
- i. Develop a solvent management plan, if solvents are used on site. The solvent management plan shall include as a minimum lists of the solvents on site; the disposal method of solvents used instead of dumping, such as reclamation, contract hauling; and the procedures for assuring that solvents do not routinely spill or leak into the stormwater;
- j. Provide for the disposal of all used oils, hydraulic fluids, firefighting foams, solvent degreasing material, etc. in accordance with good management practices and any applicable state or federal regulations;
- k. Include a diagram of the facility showing the locations where stormwater exits the facility, the locations of any structure or other mechanisms intended to prevent pollution of stormwater or to remove pollutants from stormwater, the locations of any collection and handling systems;
- l. Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;
- m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff. Any containment system used to implement this requirement shall be constructed of materials compatible with the

substance(s) contained and shall prevent the contamination of groundwater. The containment system shall also be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided;

- n. Provide and maintain curbing, diking or other means of isolating process areas to the extent necessary to allow segregation and collection for treatment of contaminated stormwater from process areas;
- o. Be reviewed by plant engineering staff and the plant manager; and
- p. Bear the signature of the plant manager.

3. Compliance Schedule

The permittee shall have reviewed (and revised if necessary) and fully implemented the BMP plan as soon as practicable but no later than six months after the effective date of this permit.

4. Department Review

- a. When requested by the Director or his designee, the permittee shall make the BMP available for Department review.
- b. The Director or his designee may notify the permittee at any time that the BMP is deficient and require correction of the deficiency.
- c. The permittee shall correct any BMP deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

5. Administrative Procedures

- a. A copy of the BMP shall be maintained at the facility and shall be available for inspection by representatives of the Department.
- b. A log of the routine inspection required above shall be maintained at the facility and shall be available for inspection by representatives of the Department. The log shall contain records of all inspections performed for the last three years and each entry shall be signed by the person performing the inspection.
- c. The permittee shall provide training for any personnel required to implement the BMP and shall retain documentation of such training at the facility. This documentation shall be available for inspection by representatives of the Department. Training shall be performed prior to the date that implementation of the BMP is required.
- d. BMP Plan Modification. The permittee shall amend the BMP plan whenever there is a change in the facility or change in operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
- e. BMP Plan Review. The permittee shall complete a review and evaluation of the BMP plan at least once every three years from the date of preparation of the BMP plan. Documentation of the BMP Plan review and evaluation shall be signed and dated by the Plant Manager.

B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS

1. Stormwater Flow Measurement

- a. All stormwater samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches.
- b. The total volume of stormwater discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.
- c. The volume may be measured using flow measuring devices, or estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a stormwater outfall, and an estimate of the runoff coefficient of the drainage area. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

2. Stormwater Sampling

- a. A grab sample, if required by this permit, shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable); and a flow-weighted composite sample, if required by this permit, shall be taken for the entire event or for the first three hours of the event.
- b. All test procedures will be in accordance with part I.B. of this permit.

C. COOLING WATER INTAKE STRUCTURE (CWIS) REQUIREMENTS

The facility receives source water from an intake on the Tennessee River and from the Colbert County Rural Water System entity. The entity providing water to the Permittee is a public water system in accordance with Section 1401 of the Safe Drinking Water Act, and the water withdrawn from the intake is not withdrawn exclusively for cooling purposes; therefore, the Permittee is exempt from this permit condition.

D. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS

1. The permittee shall perform 48-hour acute toxicity tests on the wastewater discharges required to be tested for acute toxicity by Part I of this permit.
 - a. Test Requirements
 - (1) The samples shall be diluted, using an appropriate control water, to the Instream Waste Concentration (IWC) which is 12% effluent. The IWC is the actual concentration of effluent, after mixing, based on the results of a CORMIX analysis.
 - (2) Any test where survival in the effluent concentration is less than 90% and statistically lower than the control indicates acute toxicity and constitutes noncompliance with this permit.
 - b. General Test Requirements
 - (1) A 24-hour composite sample shall be obtained for use in above biomonitoring tests. The holding time for each 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-02-012 or most current edition or another control water selected by the permittee and approved by the Department.
 - (2) Effluent toxicity tests in which the control survival is less than 90% or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the permittee shall rerun the tests as soon as practical within the monitoring period.
 - (3) In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and results.
 - c. Reporting Requirements
 - (1) The permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
 - (2) 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 Section 2. shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.
 - d. Additional Testing Requirements
 - (1) If acute toxicity is indicated (noncompliance with permit limit), the permittee shall perform four additional valid acute toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall be performed once per week and shall be performed during the first four calendar weeks following the date on which the permittee became aware of the permit noncompliance and the results of these tests shall be submitted no later than 28 days following the month in which the tests were performed.
 - (2) 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/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.).

e. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" and shall be performed using the fathead minnow (*Pimephales promelas*) and the cladoceran (*Ceriodaphnia dubia*).

2. Effluent toxicity testing reports

The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any time suspend or reinstate this requirement or may increase or decrease 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 date (MGD, CFS, GPM)
- (3) Design flow of treatment facility at time of sampling

c. Source of Effluent and Dilution Water

- (1) Effluent samples
 - (i) Sampling point
 - (ii) Sample collection dates and times (to include composite sample start and finish times)
 - (iii) Sample collection method
 - (iv) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (v) Sample temperature when received at the laboratory
 - (vi) Lapsed time from sample collection to delivery
 - (vii) Lapsed time from sample collection to test initiation
- (2) Dilution Water Samples
 - (i) Source

- (ii) Collection date(s) and time(s) (where applicable)
 - (iii) Pretreatment
 - (iv) Physical and chemical characteristics (pH, hardness, water temperature, alkalinity, 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) Feeding frequency, and amount and type of food
 - (12) Light intensity (mean)
- e. Test Organisms
 - (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease treatment (if applicable)
- f. Quality Assurance
 - (1) Reference toxicant utilized and source
 - (2) Date and time of most recent acute reference toxicant test(s), raw data, and current cusum chart(s)
 - (3) Dilution water utilized in reference toxicant test
 - (4) Results of reference toxicant test(s) (LC50, etc.), report concentration-response relationship and evaluate test sensitivity. The most recent reference toxicant test shall be conducted within 30-days of the routine.
 - (5) Physical and chemical methods utilized
- g. Results
 - (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
 - (2) Provide table of endpoints: LC50, NOAEC, Pass/Fail (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) (LC50, NOAEC, Pass/Fail, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD).

h. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits

(2) Action to be taken

Adapted from "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms", Fifth Edition, October 2002 (EPA 821-R-02-012), Section 12, Report Preparation

E. Receiving Stream Water Quality Monitoring Requirements

1. The discharge authorized by this permit shall not cause a violation of the applicable dissolved oxygen standard downstream of the discharge. The permittee shall take steps necessary to ensure that its effluent does not result in dissolved oxygen values at the five-foot depth being depressed below the water quality standard as measured by the permittee, ADEM, EPA, or its successor.
2. Stream monitoring shall be performed between May 1 and September 30 downstream from the Essity Professional Hygiene North America, LLC discharge point. The parameters to be monitored are the dissolved oxygen, pH, and water temperature at the five-foot depth in the middle of the river.
3. Locations/Frequency
 - a. Monitoring is required once per two weeks at River Mile 242.3.
 - b. Monitoring is required once per two week at River Miles 240 and 236 if the dissolved oxygen is less than 6.0 mg/L at River Mile 242.3.
 - c. Monitoring is required once per week at all downstream locations if a reportable upset condition associated with the wastewater treatment plant, which would result in a violation of the daily maximum BOD5 limitation occurs or the dissolved oxygen at any downstream monitoring point is less than or equal to 5.4 mg/L.
 - d. Monitoring is required two (2) days per week when the dissolved oxygen upstream of the mill discharge is 5.0 mg/L or less and the mill is discharging.

4. Locations

Monitoring stations shall be at the Tennessee River miles 242.3, 240 (upstream of Koger's Island), and 236 (downstream of Natchez Trace).

5. Sample Collection and Analysis

Sample collection and analysis shall be performed in accordance with EPA approved sample collection protocol and analysis methods. The times samples are collected should be reported and when practicable, all measurement should be made prior to 12:00 pm.

6. Reporting

River monitoring data shall be submitted electronically to an email address provided by the Department. The permittee is required to verify submittal of the river monitoring data by submitting a value of "0" on the discharge monitoring report for DSN0011 under the parameter "Certification – River Monitoring" for those months in which monitoring is required.

EDWARD F. POOLOS
DIRECTOR

JEFFERY W. KITCHENS
DEPUTY DIRECTOR



KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
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FACT SHEET

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

Date: February 27, 2026

Prepared By: Victoria Kim

NPDES Permit No. AL0074667

1. Name and Address of Applicant:

Essity Professional Hygiene North America, LLC
1834 Haley Drive
Cherokee, AL 35616

2. Name and Address of Facility:

Essity Professional Hygiene North America, LLC
1834 Haley Drive
Cherokee, AL 35616

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

The facility is a recycle paper mill that produces and converts tissue, paper towel, and napkin-grade paper from recycled furnish such as waste paper and post-consumer waste. The discharge consists of process wastewaters from these operations along with other activities identified in the application and permit outfall descriptions.

4. Applicant's Receiving Waters

Feature ID	Receiving Water	Classification
001	Tennessee River	Public Water Supply (PWS),Swimming and Other Whole Body Water-Contact Sports (S),Fish and Wildlife (F&W)
002	Mulberry Creek	Fish and Wildlife (F&W)
003	UT to Mulberry Creek	Fish and Wildlife (F&W)
02A	Mulberry Creek	Fish and Wildlife (F&W)

For the Outfall latitude and longitude, see the permit application.

5. Permit Conditions:

See attached Rationale and Draft Permit.

6. PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS

a. Comment Period

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



Birmingham Office
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Office
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)

Coastal Office
1615 South Broad Street
Mobile, AL 36605
(251) 450-3400
(251) 479-2593 (FAX)

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

James H. Carlson, Chief
ADEM-Water Division
1400 Coliseum Blvd
[Mailing Address: Post Office Box 301463; Zip 36130-1463]
Montgomery, Alabama 36110-2400
(334) 271-7823
water-permits@adem.alabama.gov

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

b. Public Hearing

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

James H. Carlson, Chief
ADEM-Water Division
1400 Coliseum Blvd
[Mailing Address: Post Office Box 301463; Zip 36130-1463]
Montgomery, Alabama 36110-2400
(334) 271-7823
water-permits@adem.alabama.gov

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

c. Issuance of the Permit

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

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

d. Appeal Procedures

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

Alabama Environmental Management Commission
1400 Coliseum Blvd
[Mailing Address: Post Office Box 301463; Zip 36130-1463]
Montgomery, Alabama 36110-2400

All requests must be in writing and shall contain the information provided in ADEM Admin. Code r. 335-2-1-.04.

ADEM PERMIT RATIONALE

PREPARED DATE: February 27, 2026

REVISED DATE: May 4, 2026

REVISED DATE: June 2, 2026

PREPARED BY: Victoria Kim

Permittee Name: Essity Professional Hygiene North America, LLC

Facility Name: Essity Professional Hygiene North America, LLC

Permit Number: AL0074667

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:

DSN	Description
001	Treated process wastewaters including boiler area wastewaters, cooling tower blowdown, converting printing wastewaters, maintenance waters and stormwater runoff from process areas
002	Stormwater from process areas and DSN02A1
003	Stormwater runoff from mill access road
02A	Wastewater resulting from paper machine basement overflow, GeoTube ® Filtrate, overflow of treated river water, commissioning water, water treatment tank draining, fire suppression system test water, steam condensate, and boiler area waters including boiler blowdown, pump seal water and sand filter back-flush water

INDUSTRIAL CATEGORY: 40 CFR Part 430 – The Pulp, Paper, and Paperboard Point Source Category
§430.95 Subpart I – Secondary Fiber Deink Subcategory (NSPS)

MAJOR: Yes

STREAM INFORMATION:

Receiving Stream: Tennessee River (Pickwick Lake) (DSN001)
Classification: Fish and Wildlife, Swimming, Public Water Supply
River Basin: Tennessee River Basin
7Q10: 8003.65 CFS
7Q2: 12552.49 CFS
1Q10: 4646.53 CFS
Annual Average Flow: 52014.56 CFS
303(d) List: NO
Impairment: N/A
TMDL: NO

Receiving Stream: Mulberry Creek (DSN002)
Classification: Fish and Wildlife
River Basin: Tennessee River Basin

7Q10:	0.0 CFS
7Q2:	0.0 CFS
1Q10:	0.0 CFS
Annual Average Flow:	14.67 CFS
303(d) List:	NO
Impairment:	N/A
TMDL:	NO

Receiving Stream:	Unnamed Tributary to Mulberry Creek (DSN003)
Classification:	Fish and Wildlife
River Basin:	Tennessee River Basin
7Q10:	0.0 CFS
7Q2:	0.0 CFS
1Q10:	0.0 CFS
Annual Average Flow:	0.35 CFS
303(d) List:	NO
Impairment:	N/A
TMDL:	NO

*The application submitted indicated the receiving stream for DSN003 as Mulberry Creek; however, based on a review of available information, the discharges enter unnamed tributary to Mulberry Creek.

DISCUSSION:

Essity Professional Hygiene North America, LLC (Essity) is a recycle paper mill engaged in the production and conversion of tissue, paper towel, and napkin-grade paper from recycled furnish such as waste paper and post-consumer waste.

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

DSN0011: Treated process wastewaters including boiler area wastewaters, cooling tower blowdown, converting printing wastewaters, maintenance waters and stormwater runoff from process areas.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	deg F	Monthly	Grab	All Months	BPJ
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	5211 Monthly Average	9621 Maximum Daily	lbs/day	*****	*****	*****	*****	2X Weekly	Composite	All Months	EGL
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	6815 Monthly Average	13128 Maximum Daily	lbs/day	*****	*****	*****	*****	2X Weekly	Composite	All Months	EGL
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months	BPJ
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr, May, Jun, Jul, Aug, Sep, Oct	BPJ
Nitrite Plus Nitrate Total I Det. (As N) (00630) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr, May, Jun, Jul, Aug, Sep, Oct	BPJ
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr, May, Jun, Jul, Aug, Sep, Oct	BPJ
Pentachlorophenol (39032) Effluent Gross Value	*****	0.0 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months	EGL
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Totalizer	All Months	BPJ
Certification - River Monitoring (51946) Effluent Gross Value	*****	*****	*****	*****	*****	0 Maximum Daily	Yes=0; No=1	Monthly	Not Applicable	May, Jun, Jul, Aug, Sep	BPJ
Trichlorophenol (81848) Effluent Gross Value	*****	0.0 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months	EGL

DSN001T: Treated process wastewaters including boiler area wastewaters, cooling tower blowdown, converting printing wastewaters, maintenance waters and stormwater runoff from process areas.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
Toxicity, Ceriodaphnia Acute (61425) Effluent Gross Value	*****	0 Single Sample	pass=0; fail=1	*****	*****	*****	*****	Annually	Grab	All Months	WQBEL
Toxicity, Pimephales Acute (61427) Effluent Gross Value	*****	0 Single Sample	pass=0; fail=1	*****	*****	*****	*****	Annually	Grab	All Months	WQBEL

DSN002S: Stormwater from process areas and DSN02A1

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Semi-Annually	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15.0 Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Semi-Annually	Estimate	All Months	BPJ

DSN003S: Stormwater runoff from mill access road

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Semi-Annually	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15.0 Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Semi-Annually	Calculated	All Months	BPJ
Chemical Oxygen Demand (COD) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ

DSN02A1: Wastewater resulting from paper machine basement overflow, GeoTube® Filtrate, overflow of treated river water, commissioning water, water treatment tank draining, fire suppression system test water, steam condensate, and boiler area waters including boiler blowdown, pump seal water and sand filter back-flush water

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	deg F	Monthly	Grab	All Months	BPJ
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months	BPJ
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Monthly	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months	BPJ
Zinc Total Recoverable (01094) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Monthly	Grab	All Months	BPJ
Chromium Total Recoverable (01118) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Monthly	Grab	All Months	BPJ
Copper Total Recoverable (01119) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Monthly	Grab	All Months	BPJ
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Monthly	Estimate	All Months	BPJ
Chlorine, Total Residual (50060) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months	BPJ
Cyanide, Free Available (51173) Effluent Gross Value	*****	*****	*****	*****	*****	22.0 Maximum Daily	ug/l	Monthly	Grab	All Months	WQBEL
Solids, Total Dissolved (TDS) (70296) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months	BPJ

***Basis for Permit Limitation**

- BPJ – Best Professional Judgment
- WQBEL – Water Quality Based Effluent Limits
- EGL – Federal Effluent Guideline Limitations
- Anti-Backsliding – Anti-Backsliding
- TMDL – Total Maximum Daily Load Requirements

DSN001

Discharges from this outfall include treated process wastewater associated with paper manufacturing including wastewater from converting printing operations and utility wastewaters such as boiler blowdown and steam condensate.

Tier II (DSN0012), originally included to accommodate a projected production increase, has been removed from this permit reissuance as the facility confirmed they have no plans to reach that production rate.

Landfill Leachate

The facility utilizes the Shoals Solid Waste Authority Landfill and the Buck Run Landfill, which are off-site, to dispose of sludge from the wastewater treatment plant and converting ink waste solids, respectively; therefore, there is no discharge of landfill leachate.

Best Professional Judgment (BPJ)**Flow**

Flow monitoring will be continued as totalized daily readings.

pH

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(5)(e)2 – Specific Water Quality for Fish and Wildlife classified streams states: “Sewage, industrial waste or other wastes shall not cause the pH to deviate more than one unit from then normal or natural pH, nor be less than 6.0, nor greater than 8.5 standard units.” The discharge is not expected to have a significant effect on the receiving stream due to the low effluent/stream flow ratio; therefore, the existing permit limits of 6.0 to 9.0 s.u. will be continued in this permit issuance.

Water Quality Based Effluent Limits (WQBEL)**Temperature**

A thermal mixing zone analysis was developed in 2008 to determine the necessity for temperature limitations. Based on the results of the model and historical data available to the Department, a temperature limitation is not necessary in the permit; however, monitoring requirements will be continued.

Biochemical Oxygen Demand (5-Day)

For this permit issuance, the Department developed a wasteload allocation to ensure the existing permitted load of BOD5 to the receiving stream would not cause a violation of in-stream water quality standards. The model used the existing highest allowable average load (6656 lbs/day) and predicted that further assimilative capacity is available.

Nutrients

Monitoring for Total Kjeldahl Nitrogen, Nitrite Plus Nitrate, and Total Phosphorus is proposed to continue at a monthly frequency during the growing season of April – October. Monitoring for Ammonia (as N) is proposed to continue at a monthly frequency year-round.

Toxicity Testing

In order to evaluate the whole effluent toxicity, annual acute toxicity monitoring is proposed to continue in this permit issuance. Acute toxicity monitoring is appropriate based on the receiving stream’s water use classification as the ratio of flow in the receiving stream at low flow conditions to the effluent flow being greater than 100:1.

For this permit issuance, the Department performed a mixing zone analysis (CORMIX) to determine the appropriate instream waste concentration for effluent toxicity testing. The facility will be required to perform effluent toxicity testing on an annual basis. Based on the results of a CORMIX model, the instream waste concentration is 11.7% and the limiting dilution is greater than 100:1; therefore, testing will continue to be required on an acute basis at an IWC of 12%.

Numeric Reasonable Potential Analysis (RPA)

A numeric RPA was performed using analytical data submitted with the application for DSN001. No parameters included in that analysis showed a reasonable potential to violate water quality standards; therefore, no additional limitations are proposed to be included in this permit issuance.

Federal Effluent Guideline Limitations (EGL)

The facility is subject to 40 CFR 430: Subpart I. A summary of the determination of effluent guideline limitations can be found in Attachment A to this rationale.

Biochemical Oxygen Demand (5-Day), Total Suspended Solids

The parameters are regulated under 40 CFR 430.95. Current production levels, which are more stringent than the existing limitations; therefore, reductions to the allocation for this permit issuance.

Pentachlorophenol*, Trichlorophenol*

These parameters are regulated under Subpart B and Subpart J. 40 CFR Part 430.95 states that the effluent limitations shall apply unless the discharger certifies non-use of the compounds as biocides. Historically, calculated limitations based on effluent guidelines have been established for Pentachlorophenol and Trichlorophenol in the permit for the main process wastewater outfall. This permit issuance proposes zero discharge limitations for these parameters on the basis of historical non-use certifications submitted by the facility and the expected phase out of pentachlorophenol from the wood industry within the next few years. The requirement for the facility to submit a certification of non-use of chlorophenolic-containing biocides shall remain.

*In lieu of monitoring for these parameters, the facility can submit a certification of non-use by reporting *9 on the discharge monitoring report.

Stream Monitoring Requirements

The facility is required to conduct river monitoring surveys on a periodic basis for the period from May through September inclusive. The specific details of the river monitoring requirements can be found in Part IV.E of the permit. Monitoring results should be submitted to an email provided by the Department of submission of those results indicated on the discharge monitoring report for the monitoring period. A river monitoring certification parameter is included in Part I.A. of the permit.

316(b) Cooling Water Intake Structure (CWIS) Requirements

The facility receives source water from an intake on the Tennessee River and from the Colbert County Rural Water System entity. The withdrawn river water is chemically treated onsite in the process treatment plant to disinfect, settle, and clarify the water before being used as process or mill water. The river water withdrawn is not used exclusively for cooling purposes. The Colbert County Rural Water System is a public water system which is exempt under the CWIS requirements for existing facilities under 40 CFR Part 125.91(c). The 316(b) CWIS requirements are not applicable to this facility based on the above.

DSN002

DSN002 discharges stormwater from process areas and those discharges included in DSN02A. Samples taken to comply with the DSN002 monitoring requirements should be taken when a discharge is occurring because of a qualifying storm event.

pH, Total Suspended Solids

Monitoring for these parameters will be continued to provide a measure of the effectiveness of the facility's BMP plans.

Oil & Grease

The daily maximum limitation will be continued in this permit issuance. The limitation is consistent with similar discharges, achievable with BMPs and has been shown to prevent the occurrence of a sheen in the receiving stream

DSN02A

DSN02A discharges relatively clean wastewaters and non-process wastewaters including, but not limited to paper machine basement overflow, GeoTube Filtrate, overflow of treated river water, commissioning water, water treatment tank draining, fire suppression system test water, steam condensate, and boiler area waters including boiler blowdown, pump seal water, and sand filter back-flush water. Samples taken to comply with the DSN02A monitoring requirements should be taken when a discharge is occurring in the absence of a storm event.

pH, Biochemical Oxygen Demand (5-Day), Total Suspended Solids, Total Dissolved Solids

Monitoring for these parameters will be continued to provide a measure of the effectiveness of the facility's BMP plans.

Total Residual Chlorine, Temperature

Monitoring for these parameters will be continued based on the nature of the discharge. The discharge is not expected to affect the receiving stream due to the low effluent/stream flow ratio; however, monitoring can provide useful data for determining future limitations, if necessary.

Free Available Cyanide

A numeric reasonable potential analysis was performed on the discharges from DSN02A. This analysis is based off the highest reported number between the sampling data submitted with the application and the last two years of DMR data. The sampling data reported in August and September 2024 was excluded since these results were from water that was used to extinguish a fire onsite and not representative of normal discharge conditions at this outfall. Based on the RPA, the chronic water quality criteria for cyanide has the potential to be exceeded, and therefore, a monthly average limit of 5.2 ug/l is proposed. Previously, chromium, copper, cyanide, and zinc all had daily maximum limits imposed based on acute water quality criteria, however, none of these parameters show the potential to violate the acute water quality criteria in the most recent RPA and monitor only requirements will be imposed in this permit issuance.

DSN003

DSN003 discharges stormwater from the mill access road.

pH, Total Suspended Solids, Chemical Oxygen Demand

Monitoring for these parameters will be continued to provide a measure of the effectiveness of the facility's BMP plans.

Oil & Grease

The daily maximum limitation will be continued in this permit issuance. The limitation is consistent with similar discharges, achievable with BMPs and has been shown to prevent the occurrence of a sheen in the receiving stream

Best Management Practices (BMP) Plan

Best Management Practices (BMPs) are believed to be the most effective way to control the contamination of stormwater from areas of industrial activities. This facility is required to maintain a BMP plan. The requirements of the BMP plan call for minimization of stormwater contact with waste materials, products and by-products, and for prevention of spills or loss of fluids from equipment maintenance activities. The effectiveness of the BMPs will be measured through the monitoring of the pollutants of concern.

BMP Language

The Department has updated the BMP language located in Part IV.A.2.g of the Permit. The Permit Condition now states, "Provide for routine inspections, or days during which the facility is manned, of any structures that function to prevent stormwater pollution or to remove pollutants from stormwater and of the facility in general. Routine inspections should be done at a frequency to ensure that the BMP is continually implemented and effective and in no case less frequent than once per year." This clarification was added to be consistent with 40 CFR Part 122.43(c).

May 4, 2026 Revision

The facility submitted comments on the draft permit on April 2, 2026. The response and/or revision to each request is addressed below.

Free Available Cyanide

The facility requested that the cyanide limitation for Outfall DSN02A1 be based on a daily maximum value consistent with the intermittent nature of the discharge through this outfall. The Department reviewed the facility's comments, discharge characteristics, and RPA for the outfall. Discharges from DSN02A1 are non-continuous and of short duration, typically occurring over a single day. Although the RPA indicates reasonable potential with respect to the chronic water quality criterion, application of a monthly average (chronic) limitation is not representative of the discharge scenario or expected exposure conditions. Accordingly, a daily maximum limitation based on the acute water quality criterion has been applied which is consistent with the permitting approach in the current permit.

June 2, 2026 Revision

The facility submitted comments on the revised draft permit. The response and/or revision to each request is addressed below.

DSN0011 - Pentachlorophenol and Trichlorophenol

EPA issued a Final Registration Review Decision (FD) for pentachlorophenol on December 22, 2021. The FD requires a nationwide phase-out of pentachlorophenol over five years, with use prohibited after February 28, 2027. Though it was noted that (1) utility poles and cross arms treated with pentachlorophenol may continue to be transported, sold, and installed after the phase-out, (2) existing pentachlorophenol-treated wood in service does not need to be replaced, and (3) trace amounts may persist in treatment systems and tanks during the transition to alternative chemistries, the FD also states that consultation with utility companies supported the fact that a 5-year phase-out period would be adequate for the transition.

The Department's protocol to address the phase out of pentachlorophenol is to impose zero discharge limitations for Pentachlorophenol and Trichlorophenol in paper mill permits where facilities have historically certified non-use of chlorophenolic-containing biocides and have indicated below detection results for Pentachlorophenol and Trichlorophenol on EPA Form 2C in the application. For facilities that do not use chlorophenolic-containing biocides, certification of non-use remains the applicable mechanism for demonstrating compliance, and therefore, the permit will continue to require certification of non-use, consistent with the requirements of 40 CFR Part 430.24(d) and 430.104. The final permit will retain a zero discharge limitation for Pentachlorophenol and Trichlorophenol. If the facility decides to use a chlorophenolic-containing substance, the facility shall notify the Department prior to any discharge occurring.

BOD₅ and TSS

The facility commented that the BOD₅ and TSS limitations presented in the DSN0011 limitations table on Page 38 of the rationale were not consistent with the limitations presented in the permit limits table on Page 5 and the summary table on Page 44 of the rationale.

The Department reviewed the applicable BOD₅ and TSS limitations and revised the DSN0011 limitations table in the rationale to be consistent with the permit limits table and the Summary of Permit Limitations. The applicable tables have been revised as necessary to ensure that the BOD₅ and TSS limitations are presented consistently throughout the permit and rationale.

Pentachlorophenol and Trichlorophenol

The facility commented that the Pentachlorophenol and Trichlorophenol limitations presented on Page 6 of the permit were shown as zero in the permit were inconsistent with the non-zero values presented in the rationale.

The values presented on page 45 of the rationale reflect the limitations calculated under the applicable effluent limitation guidelines. As discussed above, the Department elected to apply zero discharge limitations in the final permit. Therefore, the difference is intentional, and the rationale has been revised to clarify the distinction between the ELG-based calculations and the limitations applied in the permit.

Permit Limits Summary

Existing Permit Limitations		
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD5	9,794	5,305
TSS	13,364	6,937
Pentachlorophenol	3.06	-
Trichlorophenol	7.04	-
Basis	September 2016 Production (510.09 tons/day)	
Renewal Application		
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD5	9,621	5,211
TSS	13,128	6,815
Pentachlorophenol	3.01	-
Trichlorophenol	6.91	-
Basis	2025 Production Basis (501 tons/day)	
Proposed Permit Limitations		
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD5	9,621	5,211
TSS	13,128	6,815
Pentachlorophenol*	0.0	0
Trichlorophenol*	0.0	0
Basis	2025 Production Basis (501 tons/day)	

* See permit rationale for further discussion

Renewal Application

40 CFR 430 - Pulp and Paper Production Point Source Category

Subpart I - Secondary Fiber Deink Subcategory

40 CFR 430.95 - New source performance standards (NSPS)

Facilities where tissue paper is produced

Off-the-machine production

501 tons/day

1,002,137 lbs/day

Pollutant*	Continuous Discharges		Cluster Limitations	
	Daily Maximum (lbs/1000 lbs product)	Monthly Average (lbs/1000 lbs product)	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD ₅	9.6	5.2	9621	5211
TSS	13.1	6.8	13128	6815

*pH within the range of 5.0 to 9.0 S.U.

40 CFR 430.95 - Facilities where fine or tissue paper is produced

Pollutant	Continuous Discharges		Cluster Limitations	
	Daily Maximum (lbs/1000 lbs product)	Monthly Average (lbs/1000 lbs product)	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
Pentachlorophenol	0.003	-	3.01	-
Trichlorophenol	0.0069	-	6.91	-

Total Allocations

Pollutant	Daily Maximum	
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD ₅	9621	5211
TSS	13128	6815
Pentachlorophenol	3.01	-
Trichlorophenol	6.91	-

*pH within the range of 5.0 to 9.0 S.U.

Facility Name: **Easity Professional Hygiene**NPDES No.: **AL0074667 - DSN001**

1/18/2025

$Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$										Enter Max Daily Discharge as reported by Applicant (C _d) Max	Enter Avg Daily Discharge as reported by Applicant (C _d) Ave	Partition Coefficient (Stream / Lake)
ID	Pollutant	Carcinogen Y/N	Type	Background from upstream source (C _{d2}) Daily Max	Background from upstream source (C _{d2}) Monthly Ave	Background Instream (C _s) Daily Max	Background Instream (C _s) Monthly Ave			µg/l	µg/l	
1	Antimony		Metals	0	0	0	0			0	0	-
2	Arsenic***	YES	Metals	0	0	0	0			0	0	0.574
3	Beryllium		Metals	0	0	0	0			0	0	-
4	Cadmium**		Metals	0	0	0	0			0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0			0	0	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0			0	0	-
7	Copper**		Metals	0	0	0	0			0	0	0.388
8	Lead**		Metals	0	0	0	0			0	0	0.206
9	Mercury**		Metals	0	0	0	0			0	0	0.302
10	Nickel**		Metals	0	0	0	0			0	0	0.505
11	Selenium		Metals	0	0	0	0			0	0	-
12	Silver		Metals	0	0	0	0			0	0	-
13	Thallium		Metals	0	0	0	0			0	0	-
14	Zinc**		Metals	0	0	0	0			10.7	10.7	0.330
15	Cyanide		Metals	0	0	0	0			5	5	-
16	Total Phenolic Compounds		Metals	0	0	0	0			0	0	-
17	Hardness (As CaCO3)		Metals	0	0	0	0			0	0	-
18	Acrolein		VOC	0	0	0	0			0	0	-
19	Acrylonitrile*	YES	VOC	0	0	0	0			0	0	-
20	Aldrin	YES	VOC	0	0	0	0			0	0	-
21	Benzene*	YES	VOC	0	0	0	0			0	0	-
22	Bromoform*	YES	VOC	0	0	0	0			0	0	-
23	Carbon Tetrachloride*	YES	VOC	0	0	0	0			0	0	-
24	Chlordane	YES	VOC	0	0	0	0			0	0	-
25	Chlorobenzene		VOC	0	0	0	0			0	0	-
26	Chloroetheno-Methane*	YES	VOC	0	0	0	0			0	0	-
27	Chloroethane		VOC	0	0	0	0			0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0			0	0	-
29	Chloroform*	YES	VOC	0	0	0	0			0	0	-
30	4,4'-DDD	YES	VOC	0	0	0	0			0	0	-
31	4,4'-DDE	YES	VOC	0	0	0	0			0	0	-
32	4,4'-DDT	YES	VOC	0	0	0	0			0	0	-
33	Dichlorobromo-Methane*	YES	VOC	0	0	0	0			0	0	-
34	1,1-Dichloroethane		VOC	0	0	0	0			0	0	-
35	1,2-Dichloroethane*	YES	VOC	0	0	0	0			0	0	-
36	Trans-1,2-Dichloro-Ethylene		VOC	0	0	0	0			0	0	-
37	1,1-Dichloroethylene*	YES	VOC	0	0	0	0			0	0	-
38	1,2-Dichloropropane		VOC	0	0	0	0			0	0	-
39	1,3-Dichloro-Propylene		VOC	0	0	0	0			0	0	-
40	Dieldrin	YES	VOC	0	0	0	0			0	0	-
41	Ethylbenzene		VOC	0	0	0	0			0	0	-
42	Methyl Bromide		VOC	0	0	0	0			0	0	-
43	Methyl Chloride		VOC	0	0	0	0			0	0	-
44	Methylene Chloride*	YES	VOC	0	0	0	0			0	0	-
45	1,1,2,2-Tetrachloro-Ethane*	YES	VOC	0	0	0	0			0	0	-
46	Tetrachloro-Ethylene*	YES	VOC	0	0	0	0			0	0	-
47	Toluene		VOC	0	0	0	0			0	0	-
48	Toxaphene	YES	VOC	0	0	0	0			0	0	-
49	Tributyltin (TBT)	YES	VOC	0	0	0	0			0	0	-
50	1,1,1-Trichloroethane		VOC	0	0	0	0			0	0	-
51	1,1,2-Trichloroethane*	YES	VOC	0	0	0	0			0	0	-
52	Trichloroethylene*	YES	VOC	0	0	0	0			0	0	-
53	Vinyl Chloride*	YES	VOC	0	0	0	0			0	0	-
54	p-Chloro-m-Cresol		Acids	0	0	0	0			0	0	-
55	2-Chlorophenol		Acids	0	0	0	0			0	0	-
56	2,4-Dichlorophenol		Acids	0	0	0	0			0	0	-
57	2,4-Dimethylphenol		Acids	0	0	0	0			0	0	-
58	4,6-Dinitro-o-Cresol		Acids	0	0	0	0			0	0	-
59	2,4-Dinitrophenol		Acids	0	0	0	0			0	0	-
60	4,6-Dinitro-2-methylphenol	YES	Acids	0	0	0	0			0	0	-
61	Dioxin (2,3,7,8-TCDD)	YES	Acids	0	0	0	0			0	0	-
62	2-Nitrophenol		Acids	0	0	0	0			0	0	-
63	4-Nitrophenol		Acids	0	0	0	0			0	0	-
64	Pentachlorophenol*	YES	Acids	0	0	0	0			0	0	-
65	Phenol		Acids	0	0	0	0			0	0	-
66	2,4,6-Trichlorophenol*	YES	Acids	0	0	0	0			0	0	-
67	Acenaphthene		Bases	0	0	0	0			0	0	-
68	Acenaphthylene		Bases	0	0	0	0			0	0	-
69	Anthracene		Bases	0	0	0	0			0	0	-
70	Benidine		Bases	0	0	0	0			0	0	-
71	Benzo(A)Anthracene*	YES	Bases	0	0	0	0			0	0	-
72	Benzo(A)Pyrene*	YES	Bases	0	0	0	0			0	0	-
73	3,4-Benzo-Fluoranthene		Bases	0	0	0	0			0	0	-
74	Benzo(GH)Perylene		Bases	0	0	0	0			0	0	-
75	Benzo(K)Fluoranthene		Bases	0	0	0	0			0	0	-
76	Bis (2-Chloroethyl) Methane		Bases	0	0	0	0			0	0	-
77	Bis (2-Chloroethyl)-Ether*	YES	Bases	0	0	0	0			0	0	-
78	Bis (2-Chloro-Propyl) Ether		Bases	0	0	0	0			0	0	-
79	Bis (2-Ethylhexyl) Phthalate*	YES	Bases	0	0	0	0			16	16	-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0			0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0			0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0			0	0	-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0			0	0	-
84	Chrysene*	YES	Bases	0	0	0	0			0	0	-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0			0	0	-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0			0	0	-
87	Dibenz(A,H)Anthracene*	YES	Bases	0	0	0	0			0	0	-
88	1,2-Dichlorobenzene		Bases	0	0	0	0			0	0	-
89	1,3-Dichlorobenzene		Bases	0	0	0	0			0	0	-
90	1,4-Dichlorobenzene		Bases	0	0	0	0			0	0	-
91	3,3-Dichlorobenzidine*	YES	Bases	0	0	0	0			0	0	-
92	Diethyl Phthalate		Bases	0	0	0	0			0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0			0	0	-
94	2,4-Dinitrotoluene*	YES	Bases	0	0	0	0			0	0	-
95	2,6-Dinitrotoluene		Bases	0	0	0	0			0	0	-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0			0	0	-
97	Endosulfan (alpha)	YES	Bases	0	0	0	0			0	0	-
98	Endosulfan (beta)	YES	Bases	0	0	0	0			0	0	-
99	Endosulfan sulfate	YES	Bases	0	0	0	0			0	0	-
100	Endrin	YES	Bases	0	0	0	0			0	0	-
101	Endrin Aldehyde	YES	Bases	0	0	0	0			0	0	-
102	Fluoranthene		Bases	0	0	0	0			0	0	-
103	Fluorene		Bases	0	0	0	0			0	0	-
104	Heptachlor	YES	Bases	0	0	0	0			0	0	-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0			0	0	-
106	Hexachlorobenzene*	YES	Bases	0	0	0	0			0	0	-
107	Hexachlorobutadiene*	YES	Bases	0	0	0	0			0	0	-
108	Hexachlorocyclohexane (alpha)	YES	Bases	0	0	0	0			0	0	-
109	Hexachlorocyclohexane (beta)	YES	Bases	0	0	0	0			0	0	-
110	Hexachlorocyclohexane (gamma)	YES	Bases	0	0	0	0			0	0	-
111	Hexachlorocyclopentadiene		Bases	0	0	0	0			0	0	-
112	Hexachlorobutadiene		Bases	0	0	0	0			0	0	-
113	Indeno(1,2,3-CD)Pyrene*	YES	Bases	0	0	0	0			0	0	-
114	Isophorone		Bases	0	0	0	0			0	0	-
115	Naphthalene		Bases	0	0	0	0			0	0	-
116	Nitrobenzene		Bases	0	0	0	0			0	0	-
117	N-Nitrosodi-N-Propylamine*	YES	Bases	0	0	0	0			0	0	-
118	N-Nitrosodi-N-Methylamine*	YES	Bases	0	0	0	0			0	0	-
119	N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	0	0			0	0	-
120	PCB-1016	YES	Bases	0	0	0	0			0	0	-
121	PCB-1221	YES	Bases	0	0	0	0			0	0	-
122	PCB-1232	YES	Bases	0	0	0	0			0	0	-
123	PCB-1242	YES	Bases	0	0	0	0			0	0	-
124	PCB-1248	YES	Bases	0	0	0	0			0	0	-
125	PCB-1254	YES	Bases	0	0	0	0			0	0	-
126	PCB-1260	YES	Bases	0	0	0	0			0	0	-
127	Phenanthrene		Bases	0	0	0	0			0	0	-
128	Pyrene		Bases	0	0	0	0			0	0	-
129	1,2,4-Trichlorobenzene		Bases	0	0	0	0			0	0	-

6.47	Enter Q _d = wastewater discharge flow from facility (MGD)
10.0105716	Q _d = wastewater discharge flow (cfs) (this value is calculated from the MGD)
0	Enter flow from upstream discharge Q _{d2} = background stream flow in MGD above point of discharge
0	Q _{d2} = background stream flow from upstream source (cfs)
8003.65	Enter TQ10, Q _s = background stream flow in cfs above point of discharge
4646.53	Enter or estimated, 1Q10, Q _s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of TQ10)
52014.56	Enter Mean Annual Flow, Q _s = background stream flow in cfs above point of discharge
12552.49	Enter TQ2, Q _s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	Enter C _s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q _d + Q _{d2} + Q _s	Q _s = resultant in-stream flow, after discharge
Calculated on other	C _s = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
50	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

June 23, 2026

Facility Name: Exalt Professional Hygiene																							
NPDES No.: AL0074667 - DSN001																							
Freshwater PWS classification:																							
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (C _u) Daily Max	Max Daily Discharge as reported by Applicant (C _{max})	Freshwater Acute (μg/l) Q _a = 1Q10				Avg Daily Discharge as reported by Applicant (C _{avg})	Freshwater Chronic (μg/l) Q _a = 7Q10				Human Health Consumption Fish & Water (μg/l) Carcinogen Q _a = Annual Average Non-Carcinogen Q _a = 7Q10				Human Health Consumption Fish only (μg/l) Carcinogen Q _a = Annual Average Non-Carcinogen Q _a = 7Q10				
						Water Quality Criteria (C _w)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?		Water Quality Criteria (C _w)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C _w)	Draft Permit Limit (C _w)	20% of Draft Permit Limit	RP?	Water Quality Criteria (C _w)	Draft Permit Limit (C _w)	20% of Draft Permit Limit	RP?	
1	Antimony			0	0					0	0				5.52E+00	4.42E+03	8.83E+02	No	3.73E+02	2.99E+05	5.98E+04	No	
2	Arsenic		YES	0	0	592.334	279531.679	55106.33576	No	0	0	281.324	209195.064	41839.01275	No	1.20E-01	6.26E+02	1.25E+02	No	3.03E-01	1.57E+03	3.15E+02	No
3	Beryllium			0	0					0	0												
4	Cadmium			0	0	3.975	1849.034	369.806621	No	0	0	1.807	1446.354	289.2707366	No								
5	Chromium/ Chromium III			0	0	1537.913	715379.115	143075.8229	No	0	0	200.051	160144.680	32028.93608	No								
6	Chromium/ Chromium VI			0	0	16.000	7442.597	1488.519375	No	0	0	11.000	8805.718	1761.14351	No								
7	Copper			0	0	18.026	8385.191	1677.036125	No	0	0	12.756	10219.050	2043.818046	No	1.30E+03	1.04E+06	2.06E+05	No				
8	Lead			0	0	145.291	68048.985	13609.79708	No	0	0	5.701	4593.558	912.7116806	No								
9	Mercury			0	0	2.400	1116.390	223.2779063	No	0	0	0.012	9.606	1.921247465	No	4.19E-02	3.36E+01	6.71E+00	No	4.24E-02	3.40E+01	6.79E+00	No
10	Nickel			0	0	515.824	239042.046	47968.40914	No	0	0	57.292	45883.508	9172.701549	No	4.11E+02	3.29E+05	6.57E+04	No	9.93E+02	7.95E+05	1.59E+05	No
11	Selenium			0	0	20.000	9303.246	1860.649219	No	0	0	5.000	4002.599	800.5197773	No	1.63E+02	1.31E+05	2.61E+04	No	2.43E+03	1.95E+06	3.89E+05	No
12	Silver			0	0	0.976	454.204	90.84085366	No	0	0												
13	Thallium			0	0					0	0												
14	Zinc			0	10.7	197.369	91808.530	18361.70607	No	10.7	188.983	159290.050	31858.00993	No	1.74E-01	1.39E+02	2.78E+01	No	2.74E-01	2.19E+02	4.38E+01	No	
15	Cyanide			0	5	22.000	10233.571	2046.714141	No	5	5.200	4162.703	832.5405684	No	6.16E+03	4.93E+06	9.86E+05	No	1.48E+04	1.19E+07	2.38E+06	No	
16	Total Phenolic Compounds			0	0					0	0												
17	Hardness (As CaCO3)			0	0					0	0												
18	Acrolein			0	0					0	0												
19	Acrylonitrile	YES		0	0					0	0												
20	Aldrin	YES		0	0	3.000	1395.487	279.0973829	No	0	0												
21	Benzene	YES		0	0					0	0												
22	Bromoforn	YES		0	0					0	0												
23	Carbon Tetrachloride	YES		0	0					0	0												
24	Chlordane	YES		0	0	2.400	1116.390	223.2779063	No	0	0.0043	3.442	0.688447008	No	4.71E-04	2.45E+00	4.89E-01	No	4.73E-04	2.46E+00	4.91E-01	No	
25	Dibromobenzene			0	0					0	0												
26	Chlorodibromomethane	YES		0	0					0	0												
27	Chloroethane			0	0					0	0												
28	2-Chloro-Ethylvinyl Ether			0	0					0	0												
29	Chloroform	YES		0	0					0	0												
30	4,4' - DDD	YES		0	0					0	0												
31	4,4' - DDE	YES		0	0					0	0												
32	4,4' - DDT	YES		0	0	1.100	511.679	102.3357071	No	0	0.001	0.801	0.160103955	No	1.28E-04	6.65E-01	1.33E-01	No	1.28E-04	6.65E-01	1.33E-01	No	
33	Dichlorobromomethane	YES		0	0					0	0												
34	1,1-Dichloroethane			0	0					0	0												
35	1,2-Dichloroethane	YES		0	0					0	0												
36	Trans-1,2-Dichloro-Ethylene			0	0					0	0												
37	1,1-Dichloroethylene	YES		0	0					0	0												
38	1,2-Dichloropropane			0	0					0	0												
39	1,3-Dichloropropylene			0	0					0	0												
40	Dieldrin	YES		0	0	0.240	111.639	22.32779063	No	0	0.056	44.829	8.965821505	No	3.08E-05	1.60E-01	3.20E-02	No	3.12E-05	1.62E-01	3.25E-02	No	
41	Ethylbenzene			0	0					0	0												
42	Methyl Bromide			0	0					0	0												
43	Methyl Chloride			0	0					0	0												
44	Methylene Chloride	YES		0	0					0	0												
45	1,1,2,2-Tetrachloro-Ethane	YES		0	0					0	0												
46	Tetrachloro-Ethylene	YES		0	0					0	0												
47	Toluene			0	0					0	0												
48	Tosaphene	YES		0	0	0.730	339.568	67.9136985	No	0	0.0002	0.160	0.032020791	No	1.61E-04	8.37E-01	1.67E-01	No	1.62E-04	8.42E-01	1.68E-01	No	
49	Trisbutyltin (TBT)	YES		0	0	0.460	213.975	42.79493204	No	0	0.072	57.637	11.52748479	No									
50	1,1,1-Trichloroethane			0	0					0	0												
51	1,1,2-Trichloroethane			0	0					0	0												
52	Trichloroethylene	YES		0	0					0	0												
53	Vinyl Chloride	YES		0	0					0	0												
54	p-Chloro-M-Cresol			0	0					0	0												
55	2-Chlorophenol			0	0					0	0												
56	2,4-Dichlorophenol			0	0					0	0												
57	2,4-Dimethylphenol			0	0					0	0												
58	4,6-Dinitro-O-Cresol			0	0					0	0												
59	2,4-Dinitrophenol			0	0					0	0												
60	4,6-Dinitro-2-methylphenol	YES		0	0					0	0												
61	Dioxin (2,3,7,8-TCDD)	YES		0	0					0	0												
62	2-Nitrophenol			0	0					0	0												
63	4-Nitrophenol			0	0					0	0												
64	Pentachlorophenol	YES		0	0	8.723	4057.760	811.562009	No	0	6.693	5357.546	1071.50912	No	2.50E-01	1.30E+03	2.60E+02						

Facility Name: **Essity Professional Hygiene**NPDES No.: **AL0074667 - DSN02A**

11/15/2025

$Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$										Enter Max Daily Discharge as reported by Applicant (C _d) Max	Enter Avg Daily Discharge as reported by Applicant (C _d) Ave	Partition Coefficient (Stream / Lake)
ID	Pollutant	Carcinogen Yes*	Type	Background from upstream source (C _{d2}) Daily Max	Background from upstream source (C _{d2}) Monthly Ave	Background Instream (C _s) Daily Max	Background Instream (C _s) Monthly Ave	Background Instream (C _s) Daily Max	Background Instream (C _s) Monthly Ave	Enter Max Daily Discharge as reported by Applicant (C _d) Max	Enter Avg Daily Discharge as reported by Applicant (C _d) Ave	Partition Coefficient (Stream / Lake)
1	Antimony		Metals	0	0	0	0	0	0	0	0	-
2	Arsenic***	YES	Metals	0	0	0	0	0	0	0	0	0.574
3	Beryllium		Metals	0	0	0	0	0	0	0	0	-
4	Cadmium**		Metals	0	0	0	0	0	0	0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	5	5	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0	0	0	-
7	Copper**		Metals	0	0	0	0	0	0	0	0	0.388
8	Lead**		Metals	0	0	0	0	0	0	0	0	0.206
9	Mercury**		Metals	0	0	0	0	0	0	0	0	0.302
10	Nickel**		Metals	0	0	0	0	0	0	0	0	0.505
11	Selenium		Metals	0	0	0	0	0	0	0	0	-
12	Silver		Metals	0	0	0	0	0	0	0	0	-
13	Thallium		Metals	0	0	0	0	0	0	0	0	-
14	Zinc**		Metals	0	0	0	0	0	0	11.1	12.1	0.330
15	Cyanide		Metals	0	0	0	0	0	0	3.4	3.4	-
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0	0	0	-
17	Hardness (As CaCO3)		Metals	0	0	0	0	0	0	0	0	-
18	Acrolein		VOC	0	0	0	0	0	0	0	0	-
19	Acrylonitrile*	YES	VOC	0	0	0	0	0	0	0	0	-
20	Aldrin	YES	VOC	0	0	0	0	0	0	0	0	-
21	Benzene*	YES	VOC	0	0	0	0	0	0	0	0	-
22	Bromoform*	YES	VOC	0	0	0	0	0	0	0	0	-
23	Carbon Tetrachloride*	YES	VOC	0	0	0	0	0	0	0	0	-
24	Chlordane	YES	VOC	0	0	0	0	0	0	0	0	-
25	Chlorobenzene		VOC	0	0	0	0	0	0	0	0	-
26	Chlorodibromo-Methane*	YES	VOC	0	0	0	0	0	0	0	0	-
27	Chloroethane		VOC	0	0	0	0	0	0	0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	0	0	-
29	Chloroform*	YES	VOC	0	0	0	0	0	0	0	0	-
30	4,4'-DDD	YES	VOC	0	0	0	0	0	0	0	0	-
31	4,4'-DDE	YES	VOC	0	0	0	0	0	0	0	0	-
32	4,4'-DDT	YES	VOC	0	0	0	0	0	0	0	0	-
33	Dichlorobromo-Methane*	YES	VOC	0	0	0	0	0	0	0	0	-
34	1,1-Dichloroethane		VOC	0	0	0	0	0	0	0	0	-
35	1,2-Dichloroethane*	YES	VOC	0	0	0	0	0	0	0	0	-
36	Trans-1,2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	0	0	-
37	1,1-Dichloroethylene*	YES	VOC	0	0	0	0	0	0	0	0	-
38	1,2-Dichloropropane		VOC	0	0	0	0	0	0	0	0	-
39	1,3-Dichloro-Propylene		VOC	0	0	0	0	0	0	0	0	-
40	Dieldrin	YES	VOC	0	0	0	0	0	0	0	0	-
41	Ethylbenzene		VOC	0	0	0	0	0	0	0	0	-
42	Methyl Bromide		VOC	0	0	0	0	0	0	0	0	-
43	Methyl Chloride		VOC	0	0	0	0	0	0	0	0	-
44	Methylene Chloride*	YES	VOC	0	0	0	0	0	0	0	0	-
45	1,1,2,2-Tetrachloro-Ethane*	YES	VOC	0	0	0	0	0	0	0	0	-
46	Tetrachloro-Ethylene*	YES	VOC	0	0	0	0	0	0	0	0	-
47	Toluene		VOC	0	0	0	0	0	0	0	0	-
48	Toxaphene	YES	VOC	0	0	0	0	0	0	0	0	-
49	Tributyltin (TBT)	YES	VOC	0	0	0	0	0	0	0	0	-
50	1,1,1-Trichloroethane		VOC	0	0	0	0	0	0	0	0	-
51	1,1,2-Trichloroethane*	YES	VOC	0	0	0	0	0	0	0	0	-
52	Trichloroethylene*	YES	VOC	0	0	0	0	0	0	0	0	-
53	Vinyl Chloride*	YES	VOC	0	0	0	0	0	0	0	0	-
54	P-Chloro-M-Cresol		Acids	0	0	0	0	0	0	0	0	-
55	2-Chlorophenol		Acids	0	0	0	0	0	0	0	0	-
56	2,4-Dichlorophenol		Acids	0	0	0	0	0	0	0	0	-
57	2,4-Dimethylphenol		Acids	0	0	0	0	0	0	0	0	-
58	4,6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	0	0	-
59	2,4-Dinitrophenol		Acids	0	0	0	0	0	0	0	0	-
60	4,6-Dinitro-2-methylphenol	YES	Acids	0	0	0	0	0	0	0	0	-
61	Dioxin (2,3,7,8-TCDD)	YES	Acids	0	0	0	0	0	0	0	0	-
62	2-Nitrophenol		Acids	0	0	0	0	0	0	0	0	-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	0	0	-
64	Pentachlorophenol*	YES	Acids	0	0	0	0	0	0	0	0	-
65	Phenol		Acids	0	0	0	0	0	0	0	0	-
66	2,4,6-Trichlorophenol*	YES	Acids	0	0	0	0	0	0	0	0	-
67	Acenaphthene		Bases	0	0	0	0	0	0	0	0	-
68	Acenaphthylene		Bases	0	0	0	0	0	0	0	0	-
69	Anthracene		Bases	0	0	0	0	0	0	0	0	-
70	Benzo(a)Anthracene*	YES	Bases	0	0	0	0	0	0	0	0	-
71	Benzo(a)Anthracene*	YES	Bases	0	0	0	0	0	0	0	0	-
72	Benzo(a)Pyrene*	YES	Bases	0	0	0	0	0	0	0	0	-
73	3,4-Benzo-Fluoranthene		Bases	0	0	0	0	0	0	0	0	-
74	Benzo(ghi)Perylene		Bases	0	0	0	0	0	0	0	0	-
75	Benzo(k)Fluoranthene		Bases	0	0	0	0	0	0	0	0	-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	0	0	-
77	Bis (2-Chloroethyl) Ether*	YES	Bases	0	0	0	0	0	0	0	0	-
78	Bis (2-Chloroisopropyl) Ether		Bases	0	0	0	0	0	0	0	0	-
79	Bis (2-Ethylhexyl) Phthalate*	YES	Bases	0	0	0	0	0	0	0	0	-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0	0	0	-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	0	0	-
84	Chrysene*	YES	Bases	0	0	0	0	0	0	0	0	-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	0	0	-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	0	0	-
87	Dibenz(a,h)Anthracene*	YES	Bases	0	0	0	0	0	0	0	0	-
88	1,2-Dichlorobenzene		Bases	0	0	0	0	0	0	0	0	-
89	1,3-Dichlorobenzene		Bases	0	0	0	0	0	0	0	0	-
90	1,4-Dichlorobenzene		Bases	0	0	0	0	0	0	0	0	-
91	3,3-Dichlorobenzidine*	YES	Bases	0	0	0	0	0	0	0	0	-
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	0	0	-
94	2,4-Dinitrotoluene*	YES	Bases	0	0	0	0	0	0	0	0	-
95	2,6-Dinitrotoluene		Bases	0	0	0	0	0	0	0	0	-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	0	0	-
97	Endosulfan (alpha)	YES	Bases	0	0	0	0	0	0	0	0	-
98	Endosulfan (beta)	YES	Bases	0	0	0	0	0	0	0	0	-
99	Endosulfan sulfate	YES	Bases	0	0	0	0	0	0	0	0	-
100	Endrin	YES	Bases	0	0	0	0	0	0	0	0	-
101	Endrin Aldehyde	YES	Bases	0	0	0	0	0	0	0	0	-
102	Fluoranthene		Bases	0	0	0	0	0	0	0	0	-
103	Fluorene		Bases	0	0	0	0	0	0	0	0	-
104	Heptachlor	YES	Bases	0	0	0	0	0	0	0	0	-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	0	0	-
106	Hexachlorobenzene*	YES	Bases	0	0	0	0	0	0	0	0	-
107	Hexachlorobutadiene*	YES	Bases	0	0	0	0	0	0	0	0	-
108	Hexachlorocyclohexan (alpha)	YES	Bases	0	0	0	0	0	0	0	0	-
109	Hexachlorocyclohexan (beta)	YES	Bases	0	0	0	0	0	0	0	0	-
110	Hexachlorocyclohexan (gamma)	YES	Bases	0	0	0	0	0	0	0	0	-
111	Hexachlorocyclopentadiene		Bases	0	0	0	0	0	0	0	0	-
112	Hexachloroethane		Bases	0	0	0	0	0	0	0	0	-
113	Indeno(1,2,3-CK)Pyrene*	YES	Bases	0	0	0	0	0	0	0	0	-
114	Isophthalene		Bases	0	0	0	0	0	0	0	0	-
115	Naphthalene		Bases	0	0	0	0	0	0	0	0	-
116	Nitrobenzene		Bases	0	0	0	0	0	0	0	0	-
117	N-Nitrosodi-N-Propylamine*	YES	Bases	0	0	0	0	0	0	0	0	-
118	N-Nitrosodi-N-Methylamine*	YES	Bases	0	0	0	0	0	0	0	0	-
119	N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	0	0	0	0	0	0	-
120	PCB-101.6	YES	Bases	0	0	0	0	0	0	0	0	-
121	PCB-1221	YES	Bases	0	0	0	0	0	0	0	0	-
122	PCB-1232	YES	Bases	0	0	0	0	0	0	0	0	-
123	PCB-1242	YES	Bases	0	0	0	0	0	0	0	0	-
124	PCB-1248	YES	Bases	0	0	0	0	0	0	0	0	-
125	PCB-1254	YES	Bases	0	0	0	0	0	0	0	0	-
126	PCB-1260	YES	Bases	0	0	0	0	0	0	0	0	-
127	Phenanthrene		Bases	0	0	0	0	0	0	0	0	-
128	Pyrene		Bases	0	0	0	0	0	0	0	0	-
129	1,2,4-Trichlorobenzene		Bases	0	0	0	0	0	0	0	0	-

1.5565	Enter Q _w = wastewater discharge flow from facility (MGD)
2.40826194	Q _w = wastewater discharge flow (cfs) (this value is calculated from the MGD)
0	Enter flow from upstream discharge Q _{d2} = background stream flow in MGD above point of discharge
0	Q _{d2} = background stream flow from upstream source (cfs)
0	Enter 7Q10, Q _s = background stream flow in cfs above point of discharge
0	Enter or estimated, 1Q10, Q _s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
14.67	Enter Mean Annual Flow, Q _s = background stream flow in cfs above point

Facility Name: Essity Professional Hygiene																			
NPDES No.: AL0074667 - DSN02A																			
Freshwater F&W classification												Human Health Consumption Fish only (µg/l)							
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (C _{ud}) Daily Max	Max Daily Discharge as reported by Applicant (C _{max})	Freshwater Acute (µg/l) Q _a = 1Q10				Avg Daily Discharge as reported by Applicant (C _{max})	Freshwater Chronic (µg/l) Q _a = 7Q10				Carcinogen Q _a = Annual Average Non-Carcinogen Q _a = 7Q10				
						Water Quality Criteria (C _l)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?		Background from upstream source (C _{ud}) Monthly Ave	Water Quality Criteria (C _l)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C _l)	Draft Permit Limit (C _{max})	20% of Draft Permit Limit	RP?
1	Antimony			0	0	-	-	-	-	0	0	-	-	-	3.73E+02	3.73E+02	7.47E+01	No	
2	Arsenic		YES	0	0	592.334	592.334	118.467	No	0	0	261.324	261.324	52.265	No	3.03E-01	2.15E+00	4.30E-01	No
3	Beryllium			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
4	Cadmium			0	0	3.975	3.975	0.795	No	0	0	1.807	1.807	0.361	No	-	-	-	-
5	Chromium/ Chromium III			0	5	1537.913	1537.913	307.583	No	0	5	200.051	200.051	40.010	No	-	-	-	-
6	Chromium/ Chromium VI			0	0	16.000	16.000	3.200	No	0	0	11.000	11.000	2.200	No	-	-	-	-
7	Copper			0	0	18.026	18.026	3.605	No	0	0	12.766	12.766	2.553	No	-	-	-	-
8	Lead			0	0	148.291	148.291	29.258	No	0	0	5.701	5.701	1.140	No	-	-	-	-
9	Mercury			0	0	2.400	2.400	0.480	No	0	0	0.012	0.012	0.002	No	4.24E-02	4.24E-02	8.48E-03	No
10	Nickel			0	0	515.824	515.824	103.165	No	0	0	57.292	57.292	11.458	No	9.93E+02	9.93E+02	1.99E+02	No
11	Selenium			0	0	20.000	20.000	4.000	No	0	0	5.000	5.000	1.000	No	2.43E+03	2.43E+03	4.86E+02	No
12	Silver			0	0	0.978	0.978	0.195	No	0	0	-	-	-	-	-	-	-	-
13	Thallium			0	0	-	-	-	-	0	0	-	-	-	-	2.74E-01	2.74E-01	5.47E-02	No
14	Zinc			0	12.1	197.369	197.369	39.474	No	0	12.1	198.963	198.963	39.797	No	1.49E+04	1.49E+04	2.98E+03	No
15	Cyanide	YES		0	3.4	22.000	22.000	4.400	No	0	3.4	5.200	5.200	1.040	Yes	9.33E+03	9.33E+03	1.87E+03	No
16	Total Phenolic Compounds			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
17	Hardness (As CaCO3)			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
18	Acrolein			0	0	-	-	-	-	0	0	-	-	-	-	5.43E+00	5.43E+00	1.09E+00	No
19	Acrylonitrile		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.44E-01	1.02E+00	2.04E-01	No
20	Aldrin		YES	0	0	3.000	3.000	0.600	No	0	0	-	-	-	-	2.94E-05	2.08E-04	4.17E-05	No
21	Benzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.55E+01	1.10E+02	2.19E+01	No
22	Bromoforn		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.86E+01	5.59E+02	1.12E+02	No
23	Carbon Tetrachloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.97E-01	6.79E+00	1.36E+00	No
24	Chlordane		YES	0	0	2.400	2.400	0.480	No	0	0	0.0043	0.004	0.001	No	4.73E-04	3.35E-03	6.71E-04	No
25	Chlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	9.06E+02	9.06E+02	1.81E+02	No
26	Chlorodibromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.41E+00	5.25E+01	1.05E+01	No
27	Chloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
28	2-Chloro-Ethylvinyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
29	Chloroform		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.02E+02	7.23E+02	1.45E+02	No
30	4,4'-DDD		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.81E-04	1.29E-03	2.57E-04	No
31	4,4'-DDE		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	9.08E-04	1.82E-04	No
32	4,4'-DDT		YES	0	0	1.100	1.100	0.220	No	0	0	0.001	0.001	0.000	No	1.26E-04	9.08E-04	1.82E-04	No
33	Dichlorobromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.00E+01	7.12E+01	1.42E+01	No
34	1,1-Dichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
35	1,2-Dichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.14E+01	1.52E+02	3.03E+01	No
36	Trans-1,2-Dichloro-Ethylene			0	0	-	-	-	-	0	0	-	-	-	-	6.91E+03	5.91E+03	1.18E+03	No
37	1,1-Dichloroethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	4.17E+03	2.95E+04	5.91E+03	No
38	1,2-Dichloropropane			0	0	-	-	-	-	0	0	-	-	-	-	6.49E+00	8.49E+00	1.70E+00	No
39	1,3-Dichloro-Propylene			0	0	-	-	-	-	0	0	-	-	-	-	1.23E+01	1.23E+01	2.46E+00	No
40	Dieldrin		YES	0	0	0.240	0.240	0.048	No	0	0	0.056	0.056	0.011	No	3.12E-06	2.21E-04	4.43E-05	No
41	Ethylbenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.24E+03	1.24E+03	2.49E+02	No
42	Methyl Bromide			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+02	8.71E+02	1.74E+02	No
43	Methyl Chloride			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
44	Methylene Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.48E+02	2.45E+03	4.90E+02	No
45	1,1,2,2-Tetrachloro-Ethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.33E+00	1.65E+01	3.31E+00	No
46	Tetrachloro-Ethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.82E+00	1.36E+01	2.72E+00	No
47	Toluene			0	0	-	-	-	-	0	0	-	-	-	-	6.72E+03	8.72E+03	1.74E+03	No
48	Toxaphene		YES	0	0	0.730	0.730	0.146	No	0	0	0.0342	0.000	0.000	No	1.62E-04	1.15E-03	2.30E-04	No
49	Tributyltin (TBT)		YES	0	0	0.460	0.460	0.092	No	0	0	0.072	0.072	0.014	No	-	-	-	-
50	1,1,1-Trichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
51	1,1,2-Trichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.10E+00	6.45E+01	1.29E+01	No
52	Trichloroethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.75E+01	1.24E+02	2.48E+01	No
53	Vinyl Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.42E+03	1.01E+01	2.02E+00	No
54	p-Chloro-M-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
55	2-Chlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+01	8.71E+01	1.74E+01	No
56	2,4-Dichlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	1.72E+02	1.72E+02	3.44E+01	No
57	4-Dimethylphenol			0	0	-	-	-	-	0	0	-	-	-	-	4.89E+02	4.89E+02	9.95E+01	No
58	4,6-Dinitro-O-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
59	2,4-Dinitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	3.11E+03	6.22E+02	No
60	4,6-Dinitro-2-methylphenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.85E+02	1.17E+03	2.35E+02	No
61	Dioxin (2,3,7,8-TCDD)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.87E-08	1.89E-07	3.78E-08	No
62	2-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
63	4-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
64	Pentachlorophenol		YES	0	0	8.723	8.723	1.745	No	0	0	6.693	6.693	1.339	No	1.77E+00	1.25E+01	2.51E+00	No
65	Phenol			0	0	-	-	-	-	0	0	-	-	-	-	5.00E+05	5.00E+05	1.00E+05	No
66	2,4,6-Trichlorophenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.41E+03	1.00E+01	2.01E+00	No
67	Acenaphthene			0	0	-	-	-	-	0	0	-	-	-	-	5.79E+02	5.79E+02	1.16E+02	No
68	Acenaphthylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
69	Anthracene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+04	2.33E+04	4.67E+03	No
70	Benidine			0	0	-	-	-	-	0	0	-	-	-	-	1.16E-04	1.16E-04	2.32E-05	No
71	Benzo(A)Anthracene																		

Close Form

Waste Load Allocation Summary

Open FILE by
permit number

Comments included

☒ Yes ☐ No

General Information

Request
Number

3641

Page 1

Information
Verified By

JJM

Receiving Stream Name

Tennessee River (Pickwick Lake)

Year File Was Created

2002

Previous File Name

Pickwick Lake

OR: Local Name (If applicable)

Facility Name

ssity Professional Hygiene LLC - Barton Operatic

ID Number

1719

Previous Discharger Name

SCA Tissue formerly Southeastern Tissue

Or-AKA (includes previous file name)

12 Digit HUC Code

060300051002

River Basin

Tennessee

County

Colbert

Use Classification

PWS/S/F&W

Date of WLA Response

12/9/2019

Discharge Latitude

34.776111

Lat/Long Method

Municipal/Industrial

Discharge Longitude

-87.889167

Approved TMDL?

Site Visit Completed?

☒ Yes ☐ No

☐ Yes ☒ No

Date of Site Visit

8/29/2019

Approval Date of TMDL

Waterbody Impaired?

☒ Yes ☐ No

Antidegradation

☐ Yes ☒ No

Permit Information

Waterbody Tier Level

Tier I

Permit Number

AL0074667

Use Support Category

5

Permit Status

Active

Other Point Sources?

☐ Yes ☒ No

Type of Discharger

Sources Included in Model

- ☒ Municipal
- ☐ Industrial
- ☐ Semipublic/Private
- ☐ Mining

Waste Load Allocation Information

Modeled Reach Length	28	Miles	Date of Allocation	11/13/2019
Name of Model Used	QUAL2K		Allocation Type	Annual
Model Completed by	James Mooney		Type of Model Used	Data-based
Allocation Developed by	Water Quality Branch			

Waste Load Allocation Summary

Annual Effluent Limits	Conventional Parameters				Other Parameters			
	Qw	MGD	Qw	MGD	Qw	MGD	Qw	MGD
QW 6.77 MGD	Season		Season		Season		Season	
	From		From		From		From	
	Through		Through		Through		Through	
CBOD5 117.9 mg/L	CBOD5		CBOD5		TP		TP	
NH3-N	NH3-N		NH3-N		TN		TN	
TKN	TKN		TKN		TSS		TSS	
D.O.	D.O.		D.O.					

Monitor Only Parameters for Effluent:

Parameter	Frequency	Parameter	Frequency
TP	Monthly	DO	Monthly
NO2+NO3-N	Monthly	NH3-N	Weekly
TKN	Monthly		

Water Quality Characteristics Immediately Upstream of Discharge

Parameter	Summer		Winter	
CBODu	0.61	mg/l		mg/l
NH3-N	0.137	mg/l		mg/l
Temperature	28	°C		°C
pH	7	su		su

Hydrology at Discharge Location

Drainage Area Qualifier	Drainage Area	31406	sq mi	Method Used to Calculate
	Stream 7Q10	7236	cfs	ADEM Estimate w/TVA Gage Data
	Stream 1Q10	3289	cfs	ADEM Estimate w/TVA Gage Data
	Stream 7Q2	12022	cfs	ADEM Estimate w/TVA Gage Data
	Annual Average	51496	cfs	ADEM Estimate w/TVA Gage Data

Comments and/or Notations

The CBOD5 concentration limit of 117.9 mg/l was calculated based on maintaining the categorical based effluent load of 6656 lbs/day, given the increased effluent flowrate of 6.77 MGD (and F-ratio of 4). The Qual2k model predicts that further assimilative capacity is available in the Tennessee River; however, CBOD5 effluent limit inputs are reflective of the permitted categorical guideline values.

Close Form

Mixing Zone Analysis Summary

Open FILE by
permit number

Comments included

☒ Yes ☐ No

General Information

Request
Number

3641

Page 1

Year File Was Started

2002

Information
Verified By

JJM

Date of MZ Response

12/12/2019

Name of Receiving Stream

Tennessee River (Pickwick Lake)

Previous stream name:

Pickwick Lake

Or-AKA (If applicable)

Facility Name

ssity Professional Hygiene LLC - Barton Operatic

Previous Name of Discharger

SCA Tissue formerly Southeastern Tissue

Or-AKA (If applicable)

Other Point Sources?

☐ Yes ☒ No

12 Digit HUC Code

060300051002

Sources Included in the Model:

River Basin

Tennessee

County

Colbert

Use Classification

PWS/S/F&W

Discharge Latitude

34.776111

Discharge Longitude

-87.889167

Site Visit Completed?

☒ Yes ☐ No

Date of Site Visit

8/29/2019

Permit Information

Type of Discharger

- ☒ Municipal
☒ Industrial
☒ Semipublic/Private

Permit Number

AL0074667

Permit Status

Active

Hydrology

Drainage Area

31406 sq mi

Stream 7Q10

7236 cfs

Stream 1Q10

3289 cfs

Stream 7Q2

12022 cfs

Annual Average

51496 cfs

Date of MZ Analysis

11/20/2019

Method Used to Calculate

ADEM Estimate w/TVA Gage Data

ADEM Estimate w/TVA Gage Data

ADEM Estimate w/TVA Gage Data

ADEM Estimate w/TVA Gage Data

Model Completed by

James Mooney

Discharge Design Flow

6.77

MGD

Seasonal?

☐ Yes ☒ No

Pollutant Category

Whole Effluent Toxicity (WET) ☒ Thermal ☐ Pathogens ☐

If not seasonal, only the summer
sections will be used

Mixing Zone Analysis Summary - Page 2

WET Parameters

Summer

Acute

Ambient Streamflow 3289 cfs
 ZID Length 5.91 Meters
 ZID IWC 11.7 %

Chronic

Ambient Streamflow cfs
 Mixing Zone Length Meters
 Mixing Zone IWC %

Winter

Acute

Ambient Streamflow cfs
 ZID Length 5.91 Meters
 ZID IWC %

Chronic

Ambient Streamflow cfs
 Mixing Zone Length Meters
 Mixing Zone IWC %

Thermal Parameters

Summer

Ambient Streamflow cfs
 Mixing Zone Length Meters
 Max. Effluent Temp °C

Winter

Ambient Streamflow cfs
 Mixing Zone Length Meters
 Max. Effluent Temp °C

Pathogen Parameters

Summer

Ambient Streamflow cfs
 ZID Length Meters
 Max. Effluent Fecal Conc Cols/100 mls
 Max. Effluent E. coli Conc Cols/100 mls
 Monthly Average Effluent E. coli Conc Cols/100 mls
 Max. Effluent Enterococci Conc (for coastal waters) Cols/100 mls

Winter

Ambient Streamflow cfs
 ZID Length Meters
 Max. Effluent Fecal Conc Cols/100 mls
 Max. Effluent E. coli Conc Cols/100 mls
 Monthly Average Effluent E. coli Conc Cols/100 mls
 Max. Effluent Enterococci Conc (for coastal waters) Cols/100 mls

Comments and/or Notations ZID distance of 5.91 meters is based on ZID criteria 50 x DLS. Individual plumes have not merged by the edge of the ZID (5.91 meters); therefore CORMIX 1 is the applicable model to evaluate mixing characteristics.

Kim, Victoria P

Subject: FW: Draft Permit

From: BARNES Alicia <Alicia.Barnes1@essity.com>
Sent: Thursday, April 2, 2026 12:21 PM
To: Kim, Victoria P <victoria.kim@adem.alabama.gov>
Cc: RUSS Nigel <Nigel.Russ@essity.com>; CHORNEY Andrew <andy.chorney@essity.com>
Subject: Draft Permit

Good afternoon,

Essity respectfully requests that the draft permit continue to treat Outfall DSN02A1 as a non-continuous discharge. ADEM's NPDES regulations distinguish between continuous and non-continuous discharges, with continuous discharges typically subject to maximum daily and average monthly limits, and non-continuous discharges required to be specifically described and limited based on event related factors such as frequency, duration, and rate of discharge (ADEM Admin. Code r. 335 6 6 .15(5)). Outfall DSN02A1 discharges intermittently and has historically been regulated as a non-continuous outfall.

Alabama's water quality standards establish aquatic life criteria for free cyanide, including a freshwater acute criterion of 22 µg/L and a freshwater chronic criterion of 5.2 µg/L (ADEM Admin. Code r. 335 6 10 .07, Table 1). EPA guidance explains that the acute criterion is based on a 1 hour average exposure, while the chronic criterion is based on a 4 day average exposure. Given the intermittent nature of discharges from Outfall DSN02A1, application of the chronic cyanide criterion as an effluent limit does not reflect the exposure conditions the chronic criterion is intended to address.

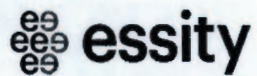
Based on review of ADEM's reasonable potential analysis (RPA), Essity further requests removal of all cyanide effluent limits for Outfall DSN02A1. The RPA demonstrates that this outfall does not have reasonable potential to cause or contribute to an excursion above the applicable acute aquatic life criterion for free cyanide. Under EPA and ADEM permitting guidance, where reasonable potential is not demonstrated, inclusion of a water quality based effluent limit is not warranted.

At a minimum, if ADEM determines that a cyanide limit is necessary, the historical limit of 22 ug/l (based on acute criterion) should be retained as the daily maximum limit, applicable only on days when a discharge occurs without a qualifying storm event, consistent with the non-continuous nature of Outfall DSN02A1 and current permit requirements.

Thanks,

Alicia Barnes
Environmental Manager
Technical Services Department

P: (256) 370-8119 | M: (256) 710-5836 | E: alicia.barnes1@essity.com



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ESSITY INTERNAL

Kim, Victoria P

Subject: FW: Essity NPDES Revised Draft Permit Comments

ESSITY INTERNAL

From: BARNES Alicia
Sent: Tuesday, June 2, 2026 2:47 PM
To: Kim, Victoria P <victoria.kim@adem.alabama.gov>
Cc: RUSS Nigel <Nigel.Russ@essity.com>; CHORNEY Andrew <andy.chorney@essity.com>
Subject: Essity NPDES Revised Draft Permit Comments

Victoria,

Below are Essity's comments regarding the revised draft permit.

DSN0011 – Pentachlorophenol/Trichlorophenol

The ELG requires inclusion of pentachlorophenol and trichlorophenol limits but allows permittees that do not use chlorophenolic biocides to certify non-use to the permitting authority.

Request:

The applicable ELG requires inclusion of pentachlorophenol and trichlorophenol limits but allows permittees that do not use chlorophenolic biocides to certify non-use to the permitting authority. Accordingly, please retain pentachlorophenol and trichlorophenol limits (consistent with the ELG, which allows discharge up to the specified limits) while maintaining the option for Essity to demonstrate compliance through certification of non-use.

Fact Sheet

Request:

Please review the DSN0011 limitations table, as the BOD5 and TSS limits do not appear to be consistent with the permit limits table. Here is an explanation of the inconsistencies:

BOD, TSS limits on pg. 38 fact sheet does not match BOD, TSS limits listed on pg. 5 and fact sheet pg. 44

DSN0011: Treated process wastewaters including boiler area wastewaters, cooling tower blowdown, converting printing wastewaters, maintenance waters and stormwater runoff from process areas.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Temperature, Water Deg. Fahrenheit (00011)	*****	*****	*****	*****	*****	(Report) Maximum Daily	deg F	Monthly	Grab	All Months	BPJ
Effluent Gross Value											
BOD, 5-Day (20 Deg. C) (00310)	5305	9794	lbs/day	*****	*****	*****	*****	2X Weekly	Composite	All Months	EGL
Effluent Gross Value	Monthly Average	Maximum Daily									
pH (00400)	*****	*****	*****	6.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	All Months	BPJ
Effluent Gross Value											
Solids, Total Suspended (00530)	6937	13364	lbs/day	*****	*****	*****	*****	2X Weekly	Composite	All Months	EGL
Effluent Gross Value	Monthly Average	Maximum Daily									
Nitrogen, Ammonia Total (As N) (00610)	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months	BPJ
Effluent Gross Value											
Nitrogen, Kjeldahl Total (As N) (00625)	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr. May, Jun, Jul, Aug, Sep, Oct	BPJ
Effluent Gross Value											
Nitrite Plus Nitrate Total 1 Det. (As N) (00630)	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr. May, Jun, Jul, Aug, Sep, Oct	BPJ
Effluent Gross Value											
Phosphorus, Total (As P) (00665)	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr. May, Jun, Jul, Aug, Sep, Oct	BPJ
Effluent Gross Value											
Pentachlorophenol (39032)	*****	0.0 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months	EGL
Effluent Gross Value											
Flow, In Conduit or Thru Treatment Plant (51050)	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Totalizer	All Months	BPJ
Effluent Gross Value											
Certification - River Monitoring (51946)	*****	*****	*****	*****	*****	0 Maximum Daily	Ycr=0; No=1	Monthly	Not Applicable	May, Jun, Jul, Aug, Sep	BPJ
Effluent Gross Value											
Trichlorophenol (51848)	*****	0.0 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months	EGL
Effluent Gross Value											

NPDES PERMIT NUMBER AL0074667

Page 1 of 29

PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

DSN0011: Treated process wastewaters including boiler area wastewaters, cooling tower blowdown, converting printing wastewaters, maintenance waters and stormwater runoff from process areas 3/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Temperature, Water Deg. Fahrenheit (00011)	*****	*****	*****	*****	*****	(Report) Maximum Daily	deg F	Monthly	Grab	All Months
Effluent Gross Value										
BOD, 5-Day (20 Deg. C) (00310)	5211	9621	lbs/day	*****	*****	*****	*****	2X Weekly	Composite	All Months
Effluent Gross Value	Monthly Average	Maximum Daily								
pH (00400)	*****	*****	*****	6.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	2X Weekly	Grab	All Months
Effluent Gross Value										
Solids, Total Suspended (00530)	6815	13128	lbs/day	*****	*****	*****	*****	2X Weekly	Composite	All Months
Effluent Gross Value	Monthly Average	Maximum Daily								
Nitrogen, Ammonia Total (As N) (00610)	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months
Effluent Gross Value										
Nitrogen, Kjeldahl Total (As N) (00625)	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr. May, Jun, Jul, Aug, Sep, Oct
Effluent Gross Value										
Nitrite Plus Nitrate Total 1 Det. (As N) (00630)	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr. May, Jun, Jul, Aug, Sep, Oct
Effluent Gross Value										
Phosphorus, Total (As P) (00665)	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	Apr. May, Jun, Jul, Aug, Sep, Oct
Effluent Gross Value										

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

Permit Limits Summary

Existing Permit		
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD5	9,794	5,305
TSS	13,364	6,937
Pentachlorophenol	3.06	-
Trichlorophenol	7.04	-
Basis	September 2016 Production (510.09 tons/day)	
Renewal Application		
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD5	9,621	5,211
TSS	13,128	6,815
Pentachlorophenol	3.01	-
Trichlorophenol	6.91	-
Basis	2025 Production Basis (501 tons/day)	
Proposed Permit		
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD5	9,621	5,211
TSS	13,128	6,815
Pentachlorophenol	3.01	0
Trichlorophenol	6.91	0
Basis	2025 Production Basis (501 tons/day)	

Phenols limits show 0 on pg. 6 of the document but fact sheets pg. 44 and 45 show new limits.

DSN0011 (Continued): Treated process wastewaters including boiler area wastewaters, cooling tower blowdown, converting printing wastewaters, maintenance waters and stormwater runoff from process areas 3/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ⁴	Seasonal
Pentachlorophenol (39032) Effluent Gross Value 4/	*****	0.0 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months
Flow, In Conduit or Through Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Totalizer	All Months
Certification - River Monitoring (51946) 5/ Effluent Gross Value	*****	*****	*****	*****	*****	0 Maximum Daily	Yes=0; No =1	Monthly	Not Applicable	May, Jun, Jul, Aug, Sep
Trichlorophenol (81848) Effluent Gross Value 4/	*****	0.0 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ In lieu of monitoring for these parameters, the permittee may certify non-use of chlorophenolic containing compounds according to the requirements at 40 CFR 430.95 by entering *9 on the discharge monitoring report.
- 5/ Reporting for this parameter will be in compliance with Part IV.E.6.

Permit Limits Summary

Existing Permit		
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD5	9,794	5,305
TSS	13,364	6,937
Pentachlorophenol	3.06	-
Trichlorophenol	7.04	-
Basis	September 2016 Production (510.09 tons/day)	
Renewal Application		
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD5	9,621	5,211
TSS	13,128	6,815
Pentachlorophenol	3.01	-
Trichlorophenol	6.91	-
Basis	2025 Production Basis (501 tons/day)	
Proposed Permit		
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD5	9,621	5,211
TSS	13,128	6,815
Pentachlorophenol	3.01	0
Trichlorophenol	6.91	0
Basis	2025 Production Basis (501 tons/day)	

Renewal Application

40 CFR 430 - Pulp and Paper Production Point Source Category

Subpart E - Secondary Fiber Drink Subcategory 40 CFR 430.95 - New source performance standards (NSPS)				
Facilities where tissue paper is produced Off the-machine production				
501 tons/day 1,002,137 lbs/day				
Pollutant *	Continuous Discharges		Cluster Limitations	
	Daily Maximum (lbs/1000 lbs product)	Monthly Average (lbs/1000 lbs product)	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD ₅	9.6	5.2	9621	5211
TSS	13.1	6.8	13128	6815
*pH within the range of 5.0 to 9.0 S.U.				
40 CFR 430.95 - Facilities where fine or tissue paper is produced				
Pollutant	Continuous Discharges		Cluster Limitations	
	Daily Maximum (lbs/1000 lbs product)	Monthly Average (lbs/1000 lbs product)	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
Pentachlorophenol	0.003	-	3.01	-
Trichlorophenol	0.0069	-	6.91	-
Total Allocations				
Pollutant	Daily Maximum			
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)		
BOD ₅	9621	5211		
TSS	13128	6815		
Pentachlorophenol	3.01			
Trichlorophenol	6.91			
*pH within the range of 5.0 to 9.0 S.U.				

Thanks,

Alicia Barnes
 Environmental Manager
 Technical Services Department

P: (256) 370-8119 | M: (256) 710-5836 | E: alicia.barnes1@essity.com



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> **Individual NPDES Permit Renewal Application**

> March 2025

ECT No. 240690-0100

ESSITY PROFESSIONAL HYGIENE NORTH AMERICA, LLC
Barton Operations
Cherokee, Alabama



7027 Southwest 24th Avenue
Gainesville, Florida 32607
www.ectinc.com

Document Review

The dual signatory process is an integral part of Environmental Consulting & Technology, Inc.'s (ECT's) Document Review Policy. All ECT documents undergo technical/peer review prior to dispatching these documents to any outside entity.

This document has been authored and reviewed by the following employees:

Nikki Gardner
Author

Nikki Gardner
Signature

03-25-2025
Date

Jen Mathia
Peer Review

Jen Mathia
Signature

03-25-2025
Date

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Appendices

Appendix A ADEM Form 187

Appendix B EPA Form 1

Appendix C EPA Form 2C – Outfall DSN001

Appendix D EPA Form 2C – Outfall DSN02A1

Appendix E EPA Form 2F – Outfall DSN002

Appendix F EPA Form 2F – Outfall DSN003

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List of Acronyms and Abbreviations

ADEM	Alabama Department of Environmental Management
CWA	Clean Water Act
CWIS	Cooling Water Intake Structure
ECT	Environmental Consulting & Technology, Inc.
EPA	U.S. Environmental Protection Agency
MGD	Million Gallons Per Day
ND	Non-Detect
NPDES	National Pollutant Discharge Elimination System
RWC	Raw Water Clarifier
SIC Code	Standard Industrial Classification (SIC) code
WWTP	Wastewater Treatment Plant

1.0 Introduction

Essity Professional Hygiene North America, LLC – Barton Operations (Essity) is located at 1834 Haley Driver, Cherokee, Colbert County, Alabama (Figure 1). Essity is a recycle paper mill, primarily engaged in the production and conversion of tissue, paper towel, and napkin-grade paper from recycled material such as wastepaper and post-consumer waste. The facility operates under Standard Industrial Classification (SIC) codes 2621 (paper mills) and 2679 (converted paper or paperboard products, not elsewhere classified). The currently effective National Pollutant Discharge Elimination System (NPDES) permit, No. AL0074667, was issued by the Alabama Department of Environmental Management (ADEM) on September 28, 2020, with an effective date of October 1, 2020. The permit expiration date is September 30, 2025. This application is being submitted to request renewal of Permit No. AL0074667 and includes the following required forms:

- ADEM Form 187
- EPA Form 1
- EPA Form 2C – Outfall DSN001
- EPA Form 2C – Outfall DSN02A1
- EPA Form 2F – Outfall DSN002
- EPA Form 2F – Outfall DSN003

1.1 Outfall Descriptions

Essity currently has four permitted outfalls (Figure 1, Table 1). Each outfall is discussed in greater detail in the following sections.

Table 1. Permitted Outfalls.

Outfall	Discharge	Receiving Water	Latitude	Longitude
DSN001	Process wastewater	Tennessee River	34° 46' 34"	-87° 53' 21"
DSN02A1	Non-process wastewater, stormwater	Mulberry Creek (to Tennessee River)	34° 46' 10"	-87° 53' 46"
DSN002	Stormwater	Mulberry Creek (to Tennessee River)	34° 46' 10"	-87° 53' 46"
DSN003	Stormwater	UT to Mulberry Creek (to Tennessee River)	34° 45' 48"	-87° 53' 40"

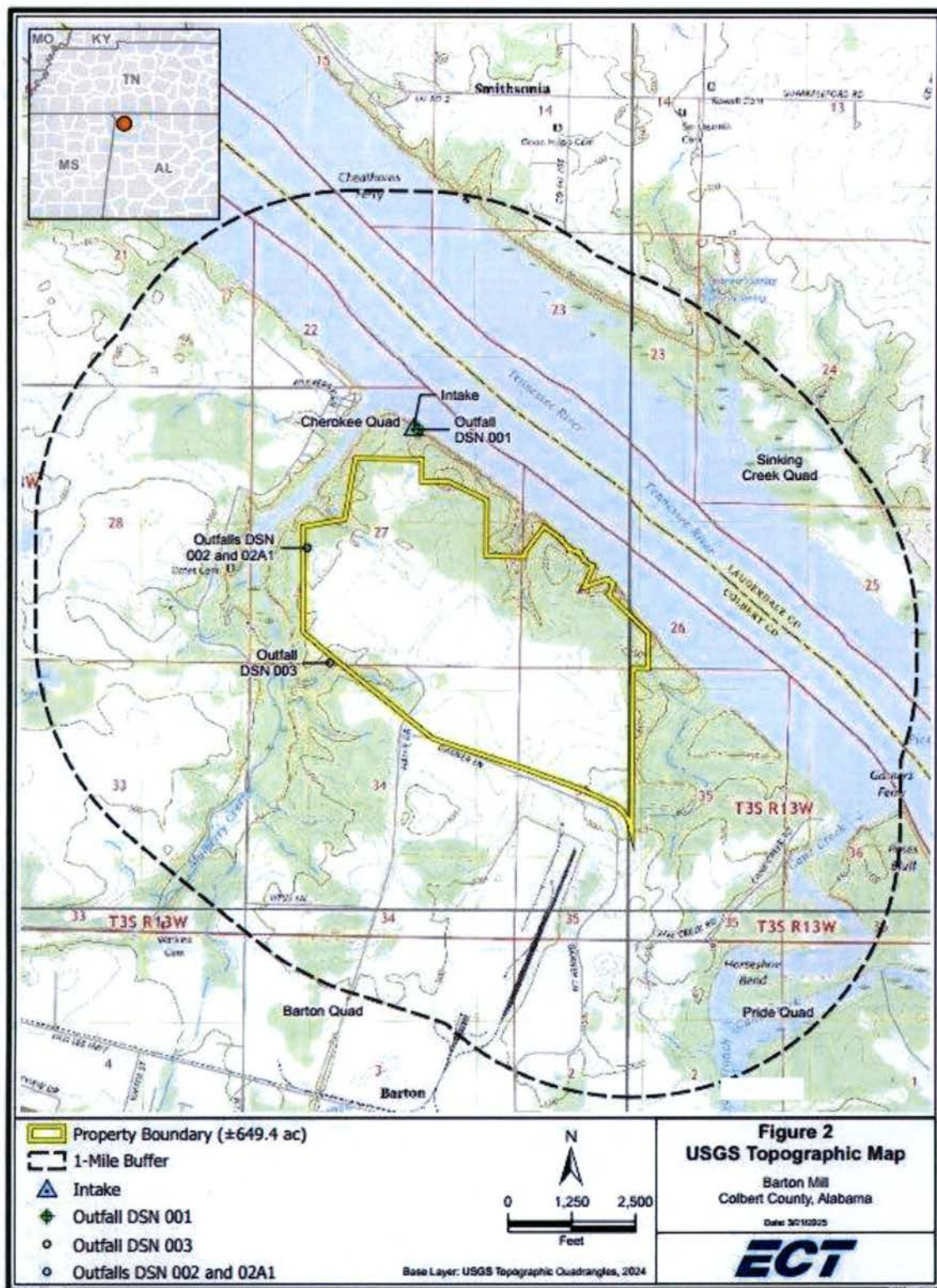


Figure 1. USGS Topographic Map of Barton Mill

1.1.1 Outfall DSN001

Outfall DSN001 discharge consists of treated process wastewater, boiler area wastewater (boiler blowdown, boiler water treatment backwash, and steam condensate), admin/converting cooling tower blowdown, converting printing wastewaters, maintenance wastewaters, miscellaneous process wastewaters, and stormwater runoff from manufacturing areas of the mill. These wastewaters are commingled and treated on-site in a wastewater treatment plant (WWTP) prior to being discharged via Outfall DSN001 to the Tennessee River through a diffuser. The WWTP is described in greater detail in Section 1.2.

Outfall DSN001 discharge may also include residuals from the various chemicals used in the production process. Residuals of these chemicals in tanks or containers may be rinsed out and routed to the WWTP after Essity determines that effluent water quality and the WWTP will not be adversely affected. Chemicals may also be required for equipment preparation and maintenance. Wastewater from these activities is intermittent in nature. Safety Data Sheets are included in Appendix G.

Outfall DSN001 discharge flows through underground piping to the southern riverbank where it passes through a foam trap, then through approximately 800 feet of piping lying on the riverbed before entering the Tennessee River through a diffuser. The foam trap uses untreated river water as foam suppressant spray, as needed, to control residual foam and rinse the foam trap. Outfall DSN001 samples are collected prior to the foam trap to ensure that the samples are representative. The water flow schematic shows process water flow (Figure 2).

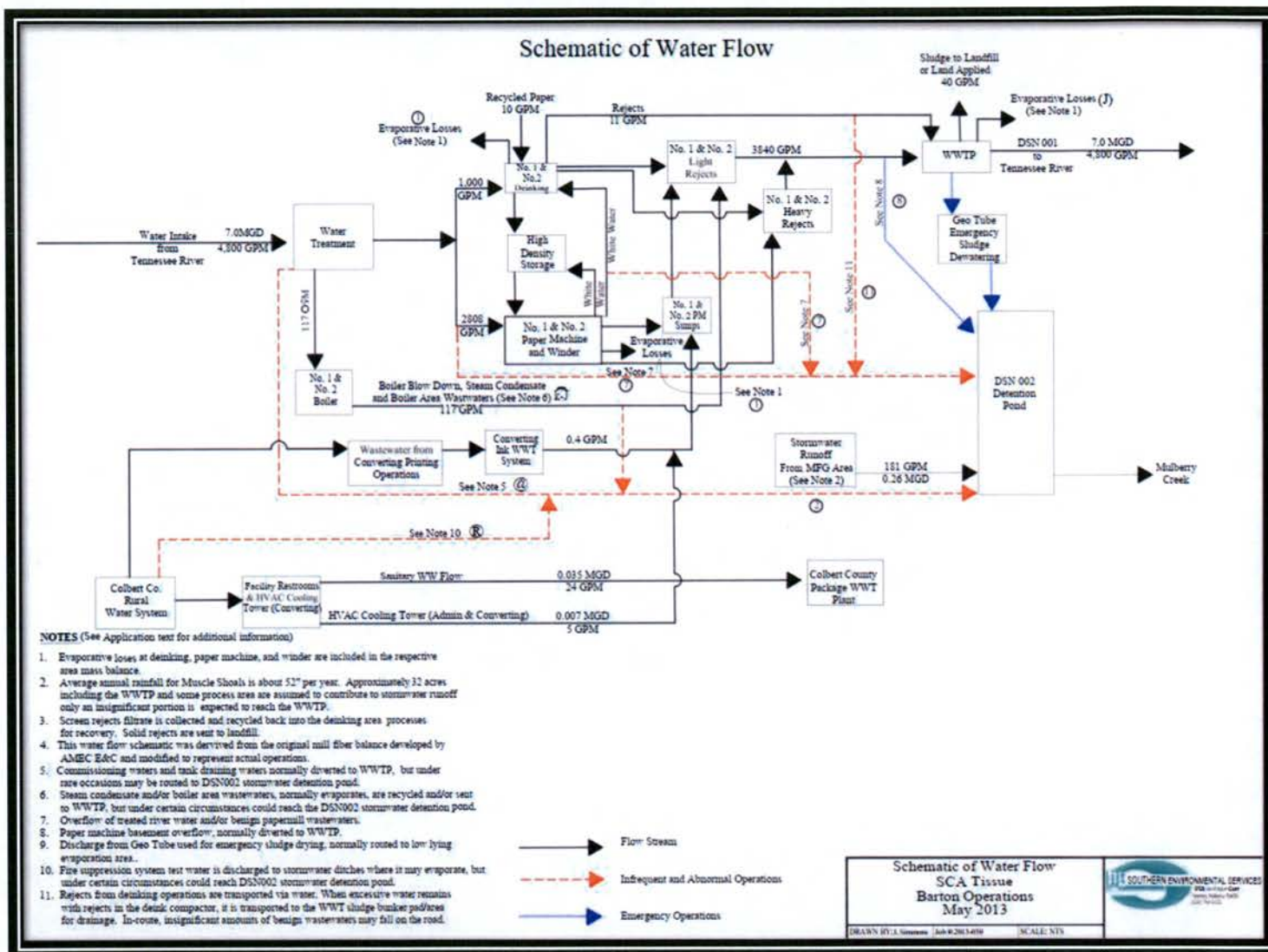


Figure 2. Water Flow Schematic (Modified from: Southern Environmental Services)

1.1.2 Outfall DSN02A1

Outfall DSN02A1 discharge consists of relatively clean wastewaters generated during unusual or emergency incidents at the facility. These wastewaters are intermittent in nature and primarily consist of clarified river water, commissioning waters, boiler area waters, steam condensate, potable water, and other wastewaters. Detailed descriptions are provided below:

- Clarified river water: River water that has been clarified/treated in Essity's Raw Water Clarifier (RWC) for facility use. Clarified river water may occasionally overflow or be drained from river water treatment tanks.
- Commissioning waters: Clarified/treated river water used to clean or test new equipment prior to operation. No chemicals are used during testing. Commissioning waters are routed to the WWTP under normal operating conditions.
- Boiler area waters: Boiler water is purified water used in the boiler to make steam. The source of purified water is clarified river water which has been passed through sand filters and an anion exchange resin filter. Very low concentrations of corrosion inhibitors, oxygen scavengers, and scale inhibitors may also be added prior to use. Boiler area waters include blowdown, pump seal water, and sand filter backwash water.
- Steam condensate: Non-contact steam that has condensed into water. Steam condensate is normally returned to the boiler. Condensate return lines run outside of the paper mill to the boiler and have several down legs along the run of the pipe. Down legs are not drained during normal operations, however, draining may be needed occasionally during an outage or leak.
- Potable water: Drinking water provided by the Colbert County Rural Water System is used for various purposes throughout the facility. Potable water is used to test the facility's emergency diesel fire water pump.
- Other wastewaters: Waters that are similar in quality to river water or stormwater and occur infrequently. These waters could include paper mill basement flood water due to equipment failure, de-ink compactor residual waters, GeoTube® filtrate, and miscellaneous tank cleaning water.

Essity previously received permission from ADEM to discharge the wastewaters described above to the onsite stormwater retention pond and stormwater Outfall DSN002. Discharge from Outfall DSN02A1 is infrequent, most recently occurring in May 2024.

1.1.3 Outfall DSN002

Outfall DSN002 discharge consists of stormwater associated with industrial activity and may also contain relatively clean wastewaters as permitted under Outfall DSN02A1. Stormwater runoff collects on-site in an approximately 35-acre-foot stormwater retention pond. The pond has a gate valve to control discharge, which allows the facility to hold potentially impacted runoff prior to release. Outfall DSN002 discharges through a perforated pipe that provides additional screening of the water. Outfall DSN002 discharges to Mulberry Creek, a tributary of the Tennessee River. A site drainage map is included as Figure 3.

As described in Section 1.1.2, the stormwater retention pond discharged water impacted by the fire in August and September 2024. Those discharges were not representative of normal discharge conditions; therefore, August and September 2024 results were not used to complete EPA Form 2F for DSN002.

1.1.4 Outfall DSN003

Outfall DSN003 discharge consists of stormwater associated with industrial activity. Outfall DSN003 is in a depression that receives overland flows of stormwater from eastern and southern exterior portions of the site and discharges to an unnamed tributary to Mulberry Creek, a tributary of the Tennessee River. A site drainage map is included as Figure 3.

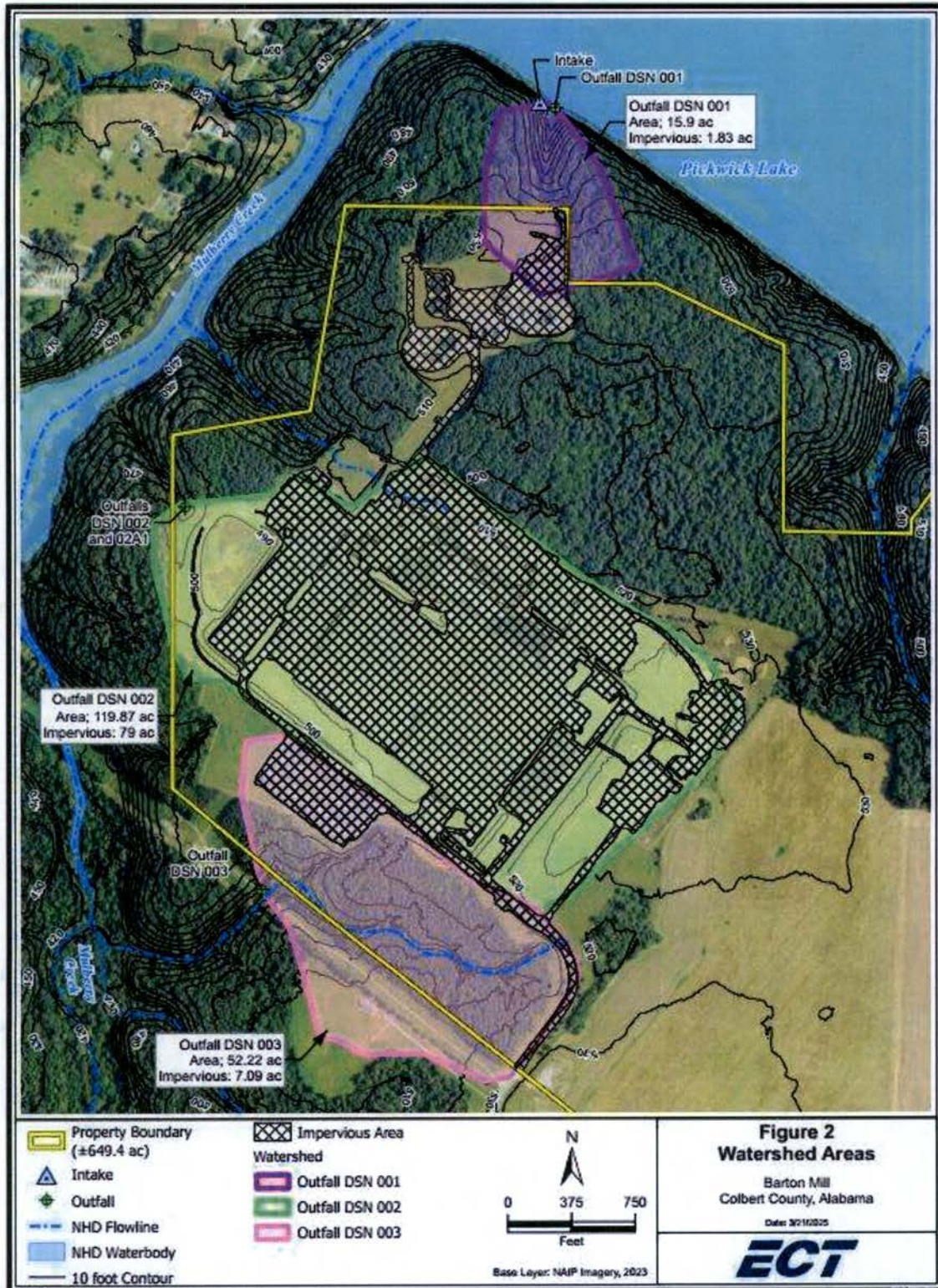


Figure 3: Site Drainage Map

1.2 Wastewater Treatment

Wastewater generated in the paper mill process contains usable fiber that is partially recovered in the de-ink plant process clarifiers. Up to 70% of process wastewater can be recycled from the de-ink plant process clarifiers. Solids removal, dewatering, and wastewater recycling are essential to the de-inking operation. Wastewater that is not recycled is routed to an on-site WWTP for treatment prior to discharge to the Tennessee River via Outfall DSN001. The WWTP is an activated sludge system that includes the following components (Figure 4):

1. Influent flow screening,
2. Primary clarification with the ability to add chemical additives as needed (coagulant, polymer, etc.),
3. Cooling tower (as needed¹),
4. Chemical metering systems,
5. Aeration basins with nutrient addition,
6. Secondary clarification with the ability to add chemical additives as needed (defoamer, coagulant, polymer, etc.),
7. Return activated sludge system (solids recycling for biological activity), with the ability to add chemical additives as needed (biocide for filamentous control, etc.),
8. Effluent drum screen for residual solids removal,
9. Effluent flow monitoring and sampling,
10. Foam trap with river water shower bar,
11. Outfall piping to diffuser in the Tennessee River; and
12. Sludge dewatering system.

The facility's untreated sanitary wastewater is pumped off-site to a sanitary WWTP operated by the Colbert County Commission.

¹ As needed, the WWTP cooling tower is used to control the temperature of the primary clarifier effluent entering the biological system, ensuring an optimal temperature range (88-94°F). Controlling the temperature helps to ensure microorganism survival, essential to the active sludge treatment process.

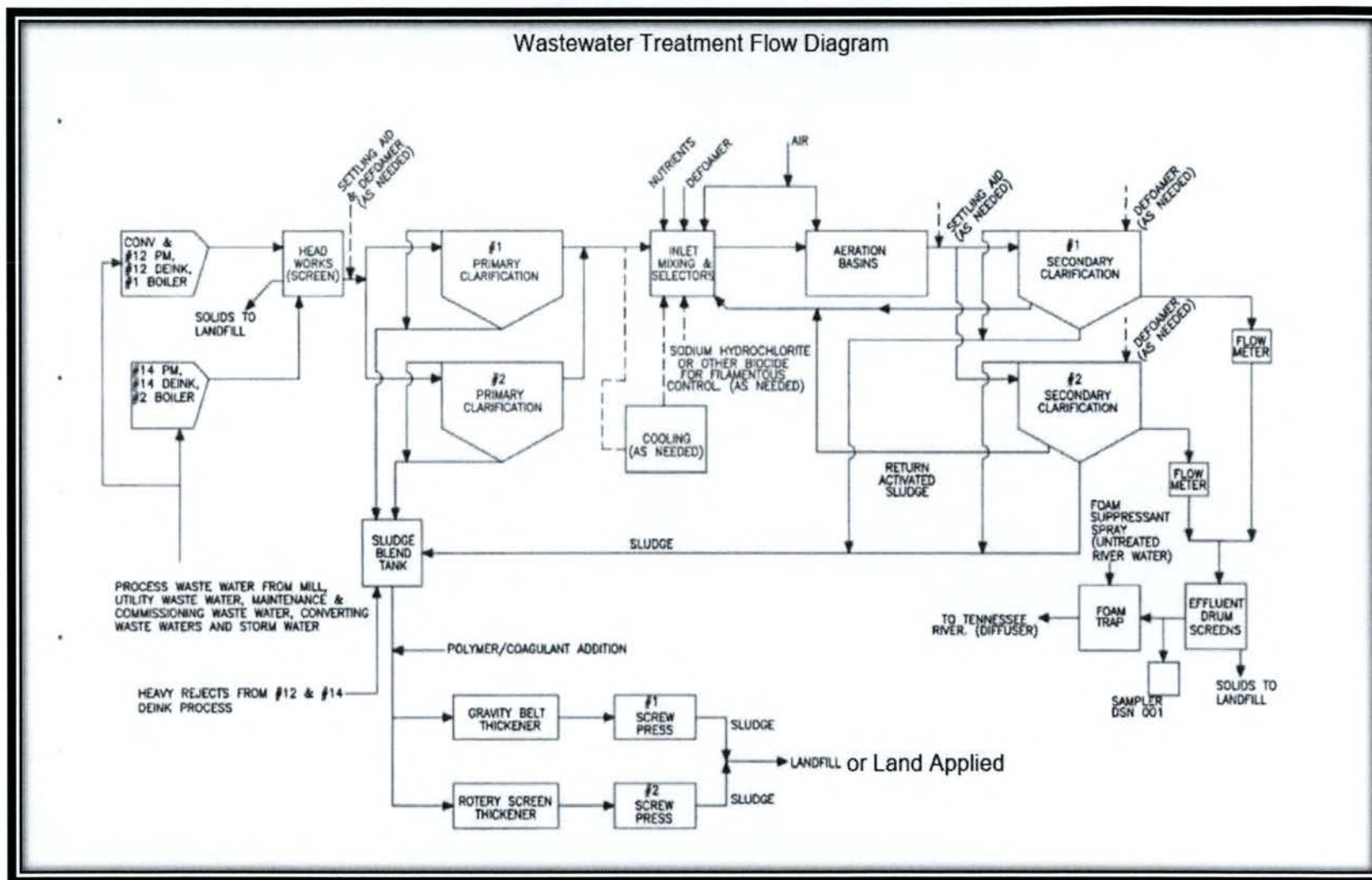


Figure 4. Wastewater Treatment Plant Flow Schematic (Modified from: SCA Tissue North America)

1.3 Source Water

There are two sources of water for Essity, an intake on the Tennessee River and potable water supplied by the Colbert County Rural Water System. The U.S. Environmental Protection Agency (EPA) promulgated Final Regulations to Establish Requirements for Cooling Water Intake Structures at Existing Facilities and Amend Requirements at Phase I Facilities on August 15, 2014 (79 FR 48300), which became effective October 14, 2014 (Final Rule). The Final Rule establishes requirements under Section 316(b) of the Clean Water Act (CWA) for existing power generating facilities and existing manufacturing and industrial facilities that are designed to withdraw more than two million gallons per day (MGD) of water from waters of the United States and use at least 25 percent of the water they withdraw exclusively for cooling purposes. Neither the Tennessee River intake nor the potable water supplied by the Colbert County Rural Water System are subject to the Final Rule as explained in Sections 1.3.1 and 1.3.2.

1.3.1 Tennessee River Intake

Approximately 7.0 MGD of river water is withdrawn from the Tennessee River. This withdraw is registered with the State of Alabama Department of Community and Economic Affairs. River water is withdrawn through a screen and an intake pipe that runs cross sectional to river flow and gravity flows into a wet well. Pressurized air is regularly released from inside of the screens to dislodge growth or buildup that settles outside of the screens. The river water is chemically treated on-site in the process (mill) water treatment plant to disinfect, settle, and clarify the water before use as "process water" or "mill water." River water is not withdrawn exclusively for cooling purposes; therefore, the intake is not subject to CWA Section 316(b).

1.3.2 Colbert County Rural Water System

The local public water system, Colbert County Rural Water, provides approximately 0.05 MGD of potable water for use in the facility, including as utility water for the converting operation. There is a Colbert County Rural Water line piped to the Process Water Tank (clarified/treated river water tank) for use as a backup source of process water, although it is not typically used. The fire suppression system has electric pumps designed to use mill water; however, the system also has an emergency backup diesel pump that can use potable water. The pump must be tested routinely. When tested, the pump uses potable water.

Colbert County Rural Water used in the Admin/Converting cooling tower is not subject to CWA Section 316(b) requirements. The final rule at 40 CFR 125.91(c) specifies that obtaining cooling water from a public water system, using reclaimed water from wastewater treatment facilities or desalination plants, or recycling treated process wastewater effluent (such as wastewater treatment plant "gray" water) does not constitute use of a cooling water intake structure for purposes of this rule. The source of Admin/Converting cooling water is a public water system; therefore, CWA Section 316(b) requirements are not applicable.

1.4 Solid Waste Disposal

Converting ink waste solids are disposed of in an off-site landfill. Sludge from the WWTP is licensed as a liming agent with the Alabama Department of Agriculture and Industries and is land applied. Sludge that does not meet Ag and Industries standards is sent to off-site landfills.

2.0 Application Forms Clarifications

ADEM Form 187, EPA Form 1, EPA Form 2C and EPA Form 2F were completed for this application and are included in this section. These permit application forms were completed using current discharge monitoring and production data. Analytical data for each outfall is included in Appendix B. Sections 2.1 through 2.4 provide clarification or supplemental information as warranted. On all forms, "ND" indicates that the reported parameter is below detection.

- ADEM Form 187 – Supplement Information
- EPA Form 1 – General Information
- Outfall DSN001 – Form 2C (process wastewater)
- Outfall DSN02A1 – Form 2C (process and non-process wastewater, stormwater)
- Outfall DSN002 – Form 2F (stormwater)
- Outfall DSN003 – Form 2F (stormwater)

2.1 **ADEM Form 187**

No clarifications are needed.

2.2 **EPA Form 1**

No clarifications are needed.

2.3 **EPA Form 2C**

2.3.1 **Outfall DSN001**

No clarifications are needed.

2.3.2 **Outfall DSN02A1**

Per NPDES Permit No. AL0074667, discharge from Outfall DSN02A1 is to be monitored on days a discharge occurs without a qualifying event. Representative discharges from this outfall are infrequent, most recently occurring in May 2024. The sedimentation pond (Outfall DSN002) was sampled on January 8, 2025, to obtain data for use in completing EPA Form 2C.

On August 10, 2024, a fire destroyed a large product warehouse on site. Potable water from the Colbert County Rural Water System and process water was used to extinguish the fire. No firefighting foam was used. Water from the fire was held in the stormwater pond (Outfall DSN002). The stormwater pond discharged water impacted by the fire in August and September 2024. August and September 2024 discharge samples were collected and previously shared with ADEM. Those discharges are not representative of normal discharge conditions; therefore, the August and September 2024 results were not used to complete EPA Form 2C for DSN02A1.

2.4 EPA Form 2F

2.4.1 Outfall DSN002

A grab sample was collected from this outfall on January 27, 2025, for use in completing EPA Form 2F. Per Form 2F instructions, a minimum of one grab sample may be taken for effluents from holding ponds or other impoundments with a retention period of greater than 24 hours. The stormwater retention pond retention time is greater than 24 hours, therefore, only a grab sample was collected, and a flow-weighted composite is not required.

2.4.2 Outfall DSN003

A grab sample was collected from this outfall on January 27, 2025, for use in completing EPA Form 2F. A representative flow-weighted composite could not be collected due to the nature of stormwater flow (overland flow) discharged from this outfall.

Appendix A ADEM Form 187

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
NPDES INDIVIDUAL PERMIT APPLICATION
SUPPLEMENTARY INFORMATION FOR INDUSTRIAL FACILITIES

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

ADEM-Water Division
Industrial Section
P O Box 301463
Montgomery, AL 36130-1463

PURPOSE OF THIS APPLICATION

- ☐ Initial Permit Application for New Facility*
☐ Modification of Existing Permit
☐ Revocation & Reissuance of Existing Permit

- ☐ Initial Permit Application for Existing Facility*
☒ Reissuance of Existing Permit

* An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required.

SECTION A – GENERAL INFORMATION

1. Permittee Name: Essity Professional Hygiene North America, LLC
2. NPDES Permit Number: AL 0074667 (not applicable if initial permit application)
3. SID Permit Number (if applicable): IU
4. NPDES General Permit Number (if applicable): ALG
5. Facility Location (Front Gate): Latitude: 34.763314 Longitude: -87.889967
6. Responsible Official (as described on the last page of this application):
Name: Steve Edwards Title: Site Manager
Address: 1834 Haley Drive
City: Cherokee State: AL Zip: 35616
Phone Number: (256) 370-8108 Email Address: steve.edwards@essity.com
7. Designated Discharge Monitoring Report (DMR) Contact:
Name: Alicia Barnes Title: Environmental Manager
Phone Number: (256) 710-5836 Email Address: Alicia.Barnes1@essity.com
8. Type of Business Entity:
☒ Corporation ☐ General Partnership ☐ Limited Partnership ☐ Limited Liability Company ☐ Sole Proprietorship
☐ Other (Please Specify) _____
8. Complete this section if the Applicant's business entity is a Corporation
a) Location of Incorporation:
Address: 2929 Arch Street, Cira Centre, Suite 2600
City: Philadelphia County: Philadelphia State: PA Zip: 19104
b) Parent Corporation of Applicant:
Name: Essity Professional Hygiene North America LLC
Address: 103 Foulk Road
City: Wilmington State: DE Zip: 19803

c) Subsidiary Corporation(s) of Applicant:

Name: NA

Address: _____

City: _____ State: _____ Zip: _____

d) Corporate Officers:

Name: Pablo Fuentes, President, Professional Hygiene

Address: 2929 Arch Street, Cira Centre, Suite 2600

City: Philadelphia State: PA Zip: 19104

Name: Rob Fuhrmann, Vice President, Manufacturing Professional Hygiene

Address: 1834 Haley Drive

City: Cherokee State: AL Zip: 35616

e) Agent designated by the corporation for purposes of service:

Name: NA

Address: _____

City: _____ State: _____ Zip: _____

9. If the Applicant's business entity is a Partnership, please list the general partners.

Name: NA Name: _____

Address: _____ Address: _____

City: _____ State: _____ Zip: _____ City: _____ State: _____ Zip: _____

10. If the Applicant's business entity is a Proprietorship, please enter the proprietor's information.

Name: NA

Address: _____

City: _____ State: _____ Zip: _____

11. Identify all Administrative Complaints, Notices of Violation, Directives, Administrative Orders, or Litigation concerning water if any, against the Applicant, its parent corporation or subsidiary corporations within the State of Alabama within the past five years (attach additional sheets if necessary):

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
<u>NA</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SECTION B – BUSINESS ACTIVITY

If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous waste), place a check beside the category of business activity (check all that apply):

Industrial Categories

- | | |
|---|---|
| ☐ Aluminum Forming | ☐ Metal Molding and Casting |
| ☐ Asbestos Manufacturing | ☐ Metal Products |
| ☐ Battery Manufacturing | ☐ Nonferrous Metals Forming |
| ☐ Can Making | ☐ Nonferrous Metals Manufacturing |
| ☐ Canned and Preserved Fruit and Vegetables | ☐ Oil and Gas Extraction |
| ☐ Canned and Preserved Seafood | ☐ Organic Chemicals Manufacturing |
| ☐ Cement Manufacturing | ☐ Paint and Ink Formulating |
| ☐ Centralized Waste Treatment | ☐ Paving and Roofing Manufacturing |
| ☐ Carbon Black | ☐ Pesticides Manufacturing |
| ☐ Coal Mining | ☐ Petroleum Refining |
| ☐ Coil Coating | ☐ Phosphate Manufacturing |
| ☐ Copper Forming | ☐ Photographic |
| ☐ Electric and Electronic Components Manufacturing | ☐ Pharmaceutical |
| ☐ Electroplating | ☐ Plastic & Synthetic Materials |
| ☐ Explosives Manufacturing | ☐ Plastics Processing Manufacturing |
| ☐ Feedlots | ☐ Porcelain Enamel |
| ☐ Ferroalloy Manufacturing | ☒ Pulp, Paper, and Fiberboard Manufacturing |
| ☐ Fertilizer Manufacturing | ☐ Rubber |
| ☐ Foundries (Metal Molding and Casting) | ☐ Soap and Detergent Manufacturing |
| ☐ Glass Manufacturing | ☐ Steam and Electric |
| ☐ Grain Mills | ☐ Sugar Processing |
| ☐ Gum and Wood Chemicals Manufacturing | ☐ Textile Mills |
| ☐ Inorganic Chemicals | ☐ Timber Products |
| ☐ Iron and Steel | ☐ Transportation Equipment Cleaning |
| ☐ Leather Tanning and Finishing | ☐ Waste Combustion |
| ☐ Metal Finishing | ☐ Other (specify) _____ |
| ☐ Meat Products | |

A facility with processes inclusive in these business areas may be covered by Environmental Protection (EPA) categorical standards. These facilities are termed "categorical users".

SECTION C – WASTEWATER DISCHARGE INFORMATION

1. Do you share an outfall with another facility? ☐ Yes ☒ No (If no, continue to C.2)

For each shared outfall, provide the following:

Applicant's Outfall No.	Name of Other Permittee/Facility	NPDES Permit No.	Where is sample collected by Applicant?
NA			

2. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

Current:	Flow Metering	☒ Yes	☐ No	☐ n/a
	Sampling Equipment	☒ Yes	☐ No	☐ n/a
Planned:	Flow Metering	☐ Yes	☐ No	☐ n/a
	Sampling Equipment	☐ Yes	☐ No	☐ n/a

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

Please see Figure 4 on page 1-7 of the permit renewal application.

3. Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics?

☐ Yes ☒ No (If no, continue to C.4)

Briefly describe these changes and their anticipated effects on the wastewater volume and characteristics:

4. List the trade name and chemical composition of all biocides and corrosion inhibitors used:

Trade Name	Chemical Composition
Please refer to SDSs included in Appendix G of the permit application package.	

For each biocide and/or corrosion inhibitor used, please include the following information:

- (1) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach,
- (2) quantities to be used,
- (3) frequencies of use,
- (4) proposed discharge concentrations, and
- (5) EPA registration number, if applicable

SECTION D – WATER SUPPLY

Water Sources (check as many as are applicable):

☐ Private Well

☒ Surface Water

☒ Municipal Water Utility (Specify City):

☐ Other (Specify):

IF MORE THAN ONE WELL OR SURFACE INTAKE, PROVIDE DATA FOR EACH ON AN ATTACHMENT

City: 0.05 MGD* Well NA MGD* Well Depth: NA Ft. Latitude: NA Longitude: NA

Surface Intake Volume: 7.0 MGD* Intake Elevation in Relation to Bottom: 3.5 Ft.

Intake Elevation: 383.5 Ft. Latitude: 34.776111 Longitude: -87.889167

Name of Surface Water Source: Tennessee River

* MGD – Million Gallons per Day

Cooling Water Intake Structure Information

Complete D.1 and D.2 if your water supply is provided by an outside source and not by an onsite water intake structure? (e.g., another industry, municipality, etc...)

1. Does the provider of your source water operate a surface water intake? ☒ Yes ☐ No
(If yes, continue, if no, go to Section E.)

a) Name of Provider: Colbert County Rural Water System

b) Location of Provider: Colbert County

c) Latitude: 34.73792 Longitude: -87.83290

2. Is the provider a public water system (defined as a system which provides water to the public for human consumption or which provides only treated water, not raw water)? ☒ Yes ☐ No (If yes, go to Section E, if no, continue.)

Only to be completed if you have a cooling water intake structure or the provider of your water supply uses an intake structure and does not treat the raw water.

3. Is any water withdrawn from the source water used for cooling? ☐ Yes ☐ No

4. Using the average monthly measurements over any 12-month period, approximately what percentage of water withdrawn is used exclusively for cooling purposes? _____%

5. Does the cooling water consist of treated effluent that would otherwise be discharged? ☐ Yes ☐ No
(If yes, go to Section E, if no, complete D.6 – D.17)

6. a. Is the cooling water used in a once-through cooling system? ☐ Yes ☐ No

- b. Is the cooling water used in a closed cycle cooling system? ☐ Yes ☐ No

7. When was the intake installed? _____
(Please provide dates for all major construction/installation of intake components including screens)

8. What is the maximum intake volume? _____
(maximum pumping capacity in gallons per day)

9. What is the average intake volume? _____
(average intake pump rate in gallons per day average in any 30-day period)

10. What is the actual intake flow (AIF) as defined in 40 CFR §125.92(a)? _____ MGD

11. How is the intake operated? (e.g., continuously, intermittently, batch) _____

12. What is the mesh size of the screen on your intake? _____

13. What is the intake screen flow-through area? _____

14. What is the through-screen design intake flow velocity? _____ ft/sec

15. What is the through-screen actual velocity (in ft/sec)? _____ ft/sec

16. What is the mechanism for cleaning the screen? (e.g., does it rotate for cleaning) _____

17. Do you have any additional fish detraction technology on your intake? ☐ Yes ☐ No

18. Have there been any studies to determine the impact of the intake on aquatic organisms? ☐ Yes ☐ No (If yes, please provide.)

19. Attach a site map showing the location of the water intake in relation to the facility, shoreline, water depth, etc.

SECTION E – WASTE STORAGE AND DISPOSAL INFORMATION

Provide a description of the location of all sites involved in the storage of solids or liquids that could be accidentally discharged to a water of the state, either directly or indirectly via such avenues as storm water drainage, municipal wastewater systems, etc., which are located at the facility for which the NPDES application is being made. Where possible, the location should be noted on a map and included with this application:

Description of Waste	Description of Storage Location
NA	

SECTION F – COASTAL ZONE INFORMATION

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County? ☐ Yes ☒ No
If yes, complete items F.1 – F.12:

- | | Yes | No |
|---|--------------------------|--------------------------|
| 1. Does the project require new construction? | ☐ | ☐ |
| 2. Will the project be a source of new air emissions? | ☐ | ☐ |
| 3. Does the project involve dredging and/or filling of a wetland area or water way? | ☐ | ☐ |
| If Yes, has the Corps of Engineers (COE) permit been received? | ☐ | ☐ |
| COE Project No. | | |
| 4. Does the project involve wetlands and/or submersed grassbeds? | ☐ | ☐ |
| 5. Are oyster reefs located near the project site? | ☐ | ☐ |
| If Yes, include a map showing project and discharge location with respect to oyster reefs | | |
| 6. Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-1-.02(bb)? | ☐ | ☐ |
| 7. Does the project involve mitigation of shoreline or coastal area erosion? | ☐ | ☐ |
| 8. Does the project involve construction on beaches or dune areas? | ☐ | ☐ |
| 9. Will the project interfere with public access to coastal waters? | ☐ | ☐ |
| 10. Does the project lie within the 100-year floodplain? | ☐ | ☐ |
| 11. Does the project involve the registration, sale, use, or application of pesticides? | ☐ | ☐ |
| 12. Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)? | ☐ | ☐ |
| If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained? | ☐ | ☐ |

SECTION G – ANTI-DEGRADATION EVALUATION

In accordance with 40 CFR §131.12 and the ADEM Admin. Code r. 335-6-10-.04 for anti-degradation, the following information must be provided, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity. If further information is required to make this demonstration, attach additional sheets to the application.

- Is this a new or increased discharge that began after April 3, 1991? ☒ Yes ☐ No
If yes, complete G.2 below. If no, go to Section H.
- Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in G.1? ☒ Yes ☐ No

If yes, do not complete this section. If no, and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete G.2.A – G.2.F below and ADEM Forms 311 and 313 (attached). ADEM Form 313 must be provided for each alternative considered technically viable.

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

A. What environmental or public health problem will the discharger be correcting?

B. How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?

C. How much reduction in employment will the discharger be avoiding?

D. How much additional state or local taxes will the discharger be paying?

E. What public service to the community will the discharger be providing?

F. What economic or social benefit will the discharger be providing to the community?

SECTION H – EPA Application Forms

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

1. All applicants must submit Form 1.
2. Applicants for existing industrial facilities (including manufacturing facilities, commercial facilities, mining activities, and silvicultural activities) which discharge process wastewater must submit Form 2C.
3. Applicants for new industrial facilities which propose to discharge process wastewater must submit Form 2D.
4. Applicants for new and existing industrial facilities which discharge only non-process wastewater (i.e., non-contact cooling water and/or sanitary wastewater) must submit Form 2E.
5. Applicants for new and existing facilities whose discharge is composed entirely of storm water associated with industrial activity must submit Form 2F, unless exempted by § 122.26(c)(1)(ii). If the discharge is composed of storm water and non-storm water, the applicant must also submit Forms 2C, 2D, and/or 2E, as appropriate (in addition to Form 2F).

SECTION I – ENGINEERING REPORT/BMP PLAN REQUIREMENTS

See ADEM 335-6-6-.08(i) & (j)

SECTION J- RECEIVING WATERS

Outfall No.	Receiving Water(s)	303(d) Segment?		Included in TMDL?*	
DSN001	Tennessee River	☐ Yes	☒ No	☐ Yes	☒ No
DSN02A1	Mulberry Creek (to Tennessee River)	☐ Yes	☒ No	☐ Yes	☒ No
DSN002	Mulberry Creek (to Tennessee River)	☐ Yes	☒ No	☐ Yes	☒ No
DSN003	Unnamed Tributary to Mulberry Creek (to Tennessee River)	☐ Yes	☒ No	☐ Yes	☒ No
		☐ Yes	☐ No	☐ Yes	☐ No

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

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

SECTION K - APPLICATION CERTIFICATION

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

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

Signature of Responsible Official: Steve Edwards Date Signed: 3/25/25

Name: Steve Edwards Title: Site Manager

If the Responsible Official signing this application is not identified in Section A.7, provide the following information:

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ Email Address: _____

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.

Delegation of Signatory Authority

Directions for Use:

1. This document may be used by a Responsible Official (as defined in 335-6-6-.09(1) or 335-6-5-.14(1)) to delegate signatory authority to an individual or position within an organization that has/have responsibility for the overall operation of the regulated facility or activity pursuant to the following regulations:

335-6-6-.09(2) [NPDES Permits]/335-6-5-.14(2) [State Indirect Discharge (SID) Permits]

All reports required by permits and other information requested by the Department shall be signed by a person described under paragraph 335-6-6-.09(1)/335-6-5-.14(1) or by a duly authorized representative of that person. **A person is a duly authorized representative only if:**

- (a) The authorization is made in writing by a person described in paragraph 335-6-6-.09(1)/335-6-5-.14(1);
 - (b) The authorization specifies either an individual or a position **having responsibility for the overall operation of the regulated facility or activity** and;
 - (c) The written authorization is submitted to the Department.
2. To sign this form as a Responsible Official, the person must be at a level of Vice President or higher, a Managing Member, a Partner, an Owner, or a Ranking Elected Official for the company/entity holding the permit or its parent company.
 3. All information requested must be provided.

A. Responsible Official (i.e. person delegating signatory rights):

Name	Title/Position	Company/Organization	Phone	Email
Steve Edwards	Site Manager	Essity Professional Hygiene	256-370-8108	Steve.Edwards@essity.com

B. Duly Authorized Representative (i.e. individual(s) or position (s) being delegated signatory authority):

Name	Title/Position	Company/Organization	Phone	Email
Andrew Chorney	Technical Services Manager	Essity Professional Hygiene	256-710-6927	Andrew.Chorney@essity.com

C. NPDES or SID Permit Number(s) for which the delegation will apply (Note: if permit not issued yet, site name and location will suffice):

AL0074667

D. Certification:

I, the abovenamed Responsible Official, delegate the individual(s)/position(s) named above the authority to sign reports, notifications, and other information on my behalf for the permit(s)/site(s) listed above and certify that the individual(s)/position(s) named above has/have responsibility for the overall operation of the regulated facility or activity.



Responsible Official's Signature

3/25/25

Date Signed

Note: If an individual or position listed above does NOT have responsibility for the overall operation of the regulated facility or activity, the delegation for that individual or position will NOT be honored by the Department. In addition, if the person signing this delegation does not meet the definition of Responsible Official in 335-6-6-.09(1) or 335-6-5-.14(1), this delegation will not be honored by the Department.

Appendix B EPA Form 1



Application Form 1

General Information

NPDES Permitting Program

Note: All applicants to the National Pollutant Discharge Elimination System (NPDES) permits program, with the exception of publicly owned treatment works and other treatment works treating domestic sewage, must complete Form 1. Additionally, all applicants must complete one or more of the following forms: 2B, 2C, 2D, 2E, or 2F. To determine the specific forms you must complete, consult the "General Instructions" for this form.

EPA Identification Number ALR000029868	NPDES Permit Number AL0074667	Facility Name Essity Professional Hygiene	Form Approved 03/05/19 OMB No. 2040-0004
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Form 1 NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater GENERAL INFORMATION
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SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))

Activities Requiring an NPDES Permit	1.1	Applicants <i>Not</i> Required to Submit Form 1	
	1.1.1	Is the facility a new or existing publicly owned treatment works ? If yes, STOP. Do NOT complete Form 1. Complete Form 2A. ☒ Yes ☐ No	1.1.2 Is the facility a new or existing treatment works treating domestic sewage ? If yes, STOP. Do NOT complete Form 1. Complete Form 2S. ☒ Yes ☐ No
	1.2	Applicants <i>Required</i> to Submit Form 1	
	1.2.1	Is the facility a concentrated animal feeding operation or a concentrated aquatic animal production facility ? ☐ Yes → Complete Form 1 and Form 2B. ☒ No	1.2.2 Is the facility an existing manufacturing, commercial, mining, or silvicultural facility that is currently discharging process wastewater ? ☒ Yes → Complete Form 1 and Form 2C. ☐ No
	1.2.3	Is the facility a new manufacturing, commercial, mining, or silvicultural facility that has not yet commenced to discharge ? ☐ Yes → Complete Form 1 and Form 2D. ☒ No	1.2.4 Is the facility a new or existing manufacturing, commercial, mining, or silvicultural facility that discharges only nonprocess wastewater ? ☐ Yes → Complete Form 1 and Form 2E. ☒ No
	1.2.5	Is the facility a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity or whose discharge is composed of both stormwater and non-stormwater ? ☒ Yes → Complete Form 1 and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). ☐ No	

SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))

Name, Mailing Address, and Location	2.1	Facility Name		
		Essity Professional Hygiene North America, LLC - Barton Operations		
	2.2	EPA Identification Number		
		ALR000029868		
	2.3	Facility Contact		
		Name (first and last) Alicia Barnes	Title Environmental Manager	Phone number (256) 710-5836
		Email address Alicia.Barnes1@essity.com		
	2.4	Facility Mailing Address		
	Street or P.O. box 1834 Haley Drive			
	City or town Cherokee	State AL	ZIP code 35616	

EPA Identification Number ALR000029868		NPDES Permit Number AL0074667		Facility Name Essity Professional Hygiene		Form Approved 03/05/19 OMB No. 2040-0004	
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Name, Mailing Address, and Location Continued	2.5	Facility Location					
		Street, route number, or other specific identifier 1834 Haley Drive					
		County name Colbert			County code (if known)		
		City or town Cherokee			State AL		ZIP code 35616

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))					
SIC and NAICS Codes	3.1	SIC Code(s)		Description (optional)	
		2621		Paper Mills	
		2679		Converted paper or paperboard products, not elsewhere classified	
	3.2	NAICS Code(s)		Description (optional)	
		32212		Paper Mills	
		322291		Sanitary Paper Product Manufacturing	

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))			
Operator Information	4.1	Name of Operator	
	Essity Professional Hygiene North America, LLC		
	4.2	Is the name you listed in Item 4.1 also the owner?	
	☒ Yes ☐ No		
	4.3	Operator Status	
☐ Public—federal ☐ Public—state ☐ Other public (specify) _____ ☒ Private ☐ Other (specify) _____			
4.4	Phone Number of Operator		
	(256) 370-8100		

Operator Information Continued	4.5	Operator Address					
		Street or P.O. Box 1834 Haley Drive					
		City or town Cherokee			State AL		ZIP code 35616
		Email address of operator Alicia.Barnes1@essity.com					

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))	
Indian Land	5.1 Is the facility located on Indian Land? ☐ Yes ☒ No

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SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits	6.1	Existing Environmental Permits (check all that apply and print or type the corresponding permit number for each)		
		☒ NPDES (discharges to surface water) AL0074667	☐ RCRA (hazardous wastes)	☐ UIC (underground injection of fluids)
		☐ PSD (air emissions)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
		☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☒ Other (specify) 701-055

SECTION 7. MAP (40 CFR 122.21(f)(7))

Map	7.1	Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.) ☒ Yes ☐ No ☐ CAFO—Not Applicable (See requirements in Form 2B.)
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SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business	8.1	Describe the nature of your business. The facility is a recycle paper mill engaged in the production and conversion of tissue, paper towel, and napkin-grade paper from recycled material such as waste paper and post-consumer waste.
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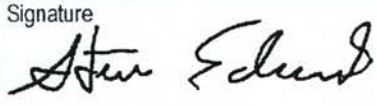
SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Cooling Water Intake Structures	9.1	Does your facility use cooling water? ☒ Yes ☐ No → SKIP to Item 10.1.
	9.2	Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.) Colbert County Rural Water System

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

Variance Requests	10.1	Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)	
		☐ Fundamentally different factors (CWA Section 301(n))	☐ Water quality related effluent limitations (CWA Section 302(b)(2))
		☐ Non-conventional pollutants (CWA Section 301(c) and (g))	☐ Thermal discharges (CWA Section 316(a))
		☒ Not applicable	

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SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))			
Checklist and Certification Statement	11.1	In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
		Column 1	Column 2
	☒	Section 1: Activities Requiring an NPDES Permit	☐ w/ attachments
	☒	Section 2: Name, Mailing Address, and Location	☐ w/ attachments
	☒	Section 3: SIC Codes	☐ w/ attachments
	☒	Section 4: Operator Information	☐ w/ attachments
	☒	Section 5: Indian Land	☐ w/ attachments
	☒	Section 6: Existing Environmental Permits	☐ w/ attachments
	☒	Section 7: Map	☒ w/ topographic map ☐ w/ additional attachments
	☒	Section 8: Nature of Business	☐ w/ attachments
	☒	Section 9: Cooling Water Intake Structures	☐ w/ attachments
	☒	Section 10: Variance Requests	☐ w/ attachments
	☒	Section 11: Checklist and Certification Statement	☐ w/ attachments
	11.2	Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Steve Edwards	Official title Site Manager
	Signature 	Date signed 3/25/25	

Appendix C EPA Form 2C – Outfall DSN001

Water Permits Division



Application Form 2C

Existing Manufacturing, Commercial, Mining, and Silvicultural Operations

NPDES Permitting Program

Note: Complete this form *and* Form 1 if your facility is an existing manufacturing, commercial, mining, or silvicultural facility that currently discharges process wastewater.

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Form 2C NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS
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SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below.			
		Outfall Number	Receiving Water Name	Latitude	Longitude
		DSN001	Tennessee River	34° 46' 34" N	87° 53' 21" W
				° ' "	° ' "
				° ' "	° ' "

SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))

Line Drawing	2.1	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☒ Yes ☐ No
--------------	-----	---

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

Average Flows and Treatment	3.1	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.		
		Outfall Number DSN001		
		Operations Contributing to Flow		
		Operation	Average Flow	
		Process Wastewater (Includes Utility & Converting)	6.47 mgd	
		Utility Wastewater (Boiler blowdown, steam condensate)	0.189 mgd	
		Converting printing operations	0.007 mgd	
			mgd	
		Treatment Units		
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
		See Sections 1.1 and 1.2 of the permit renewal application.	1-T, 1-U, 1-H, 2D,	5-Q, 5-P
			3-A, 5-L, 5-R, 4-A	

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Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____			
		Operations Contributing to Flow			
		Operation	Average Flow		
					mgd
					mgd
					mgd
					mgd
		Treatment Units			
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge	
		Outfall Number _____			
		Operations Contributing to Flow			
		Operation	Average Flow		
					mgd
					mgd
					mgd
					mgd
		Treatment Units			
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge	

System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☒ Yes ☐ No → SKIP to Section 4.	
	3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes ☒ No	

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SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days

SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))

Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☒ Yes ☐ No → SKIP to Section 6.		
	5.2	Provide the following information on applicable ELGs.		
		ELG Category	ELG Subcategory	Regulatory Citation
		Pulp, Paper, and Paperboard Point	Secondary Fiber Deink Subcategory	40 CFR 430, Subpart I

Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☒ Yes ☐ No → SKIP to Section 6.			
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.			
		Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure
		DSN001	Production/converting of tissue, towel and napkin grades of paper	1,002,137	lbs/day

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SECTION 6. IMPROVEMENTS (40 CFR 122.21(g)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?			
		☐ Yes ☒ No → SKIP to Item 6.3.			
	6.2	Briefly identify each applicable project in the table below.			
		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates Required Projected
	6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (optional item)			
		☐ Yes ☐ No ☒ Not applicable			

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(g)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.			
	Table A. Conventional and Non-Conventional Pollutants			
	7.1	Are you requesting a waiver from your NPDES permitting authority for one or more of the Table A pollutants for any of your outfalls?		
		☐ Yes ☒ No → SKIP to Item 7.3.		
	7.2	If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application.		
		Outfall Number _____ Outfall Number _____ Outfall Number _____		
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?		
		☒ Yes ☐ No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls.		
	Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants			
	7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)		
	☒ Yes ☐ No → SKIP to Item 7.8.			
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?			
	☒ Yes ☐ No			
7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.			
	Primary Industry Category	Required GC/MS Fraction(s) (Check applicable boxes.)		
	Pulp, Paper, and Paperboard / Secondary Fiber Deink	☒ Volatile ☒ Acid ☐ Base/Neutral ☐ Pesticide		
		☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide		
		☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide		

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Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☒ Yes ☐ No
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☒ Yes ☐ No
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☒ Yes ☐ No
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes ☐ No
	Table C. Certain Conventional and Non-Conventional Pollutants	
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? ☒ Yes ☐ No
	7.13	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes ☐ No
	Table D. Certain Hazardous Substances and Asbestos	
	7.14	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes ☐ No
	7.15	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? ☒ Yes ☐ No
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)	
	7.16	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.
	7.17	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes ☒ No

SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))			
Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.	
	8.2	List the pollutants below.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

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SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(g)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge? ☒ Yes ☐ No → SKIP to Section 10.			
	9.2	Identify the tests and their purposes below.			
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
		DSN001: 48-hour acute toxicity	Annual permit requirement	☒ Yes ☐ No	01/13/2025
		DSN001: 48-hour acute toxicity	Annual permit requirement	☒ Yes ☐ No	01/04/2024
		DSN001: 48-hour acute toxicity	Annual permit requirement	☒ Yes ☐ No	01/12/2023

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(g)(12))

Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.		
	10.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
	Name of laboratory/firm	Environmental Resource Analysts, Inc. (ERA)	Southern Environmental Testing	Eurofins Pensacola
	Laboratory address	2975 Brown Court Auburn, AL 36830	3103 Northington Court Florence, AL 35630	3355 McLemore Drive Pensacola, FL 32514
	Phone number	(334) 502-3444	(256) 740-5532	(850) 474-1001
	Pollutant(s) analyzed	48 hour acute toxicity: Ceriodaphnia dubia and Pimephlaes promelas	Anions, Inorganics, Metals, VOCs, Microbiological	SVOCs

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

Additional Information	11.1	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.		
	11.2	List the information requested and attach it to this application.		
	1.	4.		
	2.	5.		
	3.	6.		

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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))																													
Checklist and Certification Statement	12.1	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Column 1</th> <th style="width: 60%;">Column 2</th> </tr> </thead> <tbody> <tr> <td>☒ Section 1: Outfall Location</td> <td>☐ w/ attachments</td> </tr> <tr> <td>☒ Section 2: Line Drawing</td> <td>☒ w/ line drawing ☐ w/ additional attachments</td> </tr> <tr> <td>☒ Section 3: Average Flows and Treatment</td> <td>☐ w/ attachments ☐ w/ list of each user of privately owned treatment works</td> </tr> <tr> <td>☒ Section 4: Intermittent Flows</td> <td>☐ w/ attachments</td> </tr> <tr> <td>☒ Section 5: Production</td> <td>☐ w/ attachments</td> </tr> <tr> <td>☒ Section 6: Improvements</td> <td>☐ w/ attachments ☐ w/ optional additional sheets describing any additional pollution control plans</td> </tr> <tr> <td>☒ Section 7: Effluent and Intake Characteristics</td> <td> ☐ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table B ☒ w/ Table C ☒ w/ Table D ☒ w/ Table E ☒ w/ analytical results as an attachment </td> </tr> <tr> <td>☒ Section 8: Used or Manufactured Toxics</td> <td>☐ w/ attachments</td> </tr> <tr> <td>☒ Section 9: Biological Toxicity Tests</td> <td>☐ w/ attachments</td> </tr> <tr> <td>☒ Section 10: Contract Analyses</td> <td>☐ w/ attachments</td> </tr> <tr> <td>☒ Section 11: Additional Information</td> <td>☐ w/ attachments</td> </tr> <tr> <td>☒ Section 12: Checklist and Certification Statement</td> <td>☐ w/ attachments</td> </tr> </tbody> </table>		Column 1	Column 2	☒ Section 1: Outfall Location	☐ w/ attachments	☒ Section 2: Line Drawing	☒ w/ line drawing ☐ w/ additional attachments	☒ Section 3: Average Flows and Treatment	☐ w/ attachments ☐ w/ list of each user of privately owned treatment works	☒ Section 4: Intermittent Flows	☐ w/ attachments	☒ Section 5: Production	☐ w/ attachments	☒ Section 6: Improvements	☐ w/ attachments ☐ w/ optional additional sheets describing any additional pollution control plans	☒ Section 7: Effluent and Intake Characteristics	☐ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table B ☒ w/ Table C ☒ w/ Table D ☒ w/ Table E ☒ w/ analytical results as an attachment	☒ Section 8: Used or Manufactured Toxics	☐ w/ attachments	☒ Section 9: Biological Toxicity Tests	☐ w/ attachments	☒ Section 10: Contract Analyses	☐ w/ attachments	☒ Section 11: Additional Information	☐ w/ attachments	☒ Section 12: Checklist and Certification Statement	☐ w/ attachments
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	☒ Section 12: Checklist and Certification Statement	☐ w/ attachments																											
	12.2	Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Name (print or type first and last name)</td> <td style="width: 40%;">Official title</td> </tr> <tr> <td>Steve Edwards</td> <td>Site Manager</td> </tr> <tr> <td>Signature</td> <td>Date signed</td> </tr> <tr> <td></td> <td>3/25/25</td> </tr> </table>		Name (print or type first and last name)	Official title	Steve Edwards	Site Manager	Signature	Date signed		3/25/25																		
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TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (Optional)		
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses	
☐ Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.									
1. Biochemical oxygen demand (BOD ₅)	☐	Concentration	mg/l	36.2		6.87	444		
		Mass	lbs/day	2180	811	371	444		
2. Chemical oxygen demand (COD)	☐	Concentration	mg/l	82.0			1		
		Mass	lbs/day	4678			1		
3. Total organic carbon (TOC)	☐	Concentration	mg/l	17.0			1		
		Mass	lbs/day	970			1		
4. Total suspended solids (TSS)	☐	Concentration	mg/l	247		14.7	444		
		Mass	lbs/day	13347	3345	786	444		
5. Ammonia (as N)	☐	Concentration	mg/l	6.58	6.58	0.87	52		
		Mass	lbs/day	372		48	52		
6. Flow	☐	Rate	MGD	8.19	7.049	6.47	1551		
7. Temperature	☐	°C	°C	32	32		27		
	☐	°C	°C	37	37		23		
8. pH	☐	Standard units	s.u.	6.39			443		
	☐	Standard units	s.u.	8.12			443		

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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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)			
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses		
☐	Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.												
Section 1. Toxic Metals, Cyanide, and Total Phenols													
1.1	Antimony, total (7440-36-0)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.2	Arsenic, total (7440-38-2)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.3	Beryllium, total (7440-41-7)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.4	Cadmium, total (7440-43-9)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.5	Chromium, total (7440-47-3)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.6	Copper, total (7440-50-8)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.7	Lead, total (7439-92-1)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.8	Mercury, total (7439-97-6)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.9	Nickel, total (7440-02-0)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.10	Selenium, total (7782-49-2)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				
1.11	Silver, total (7440-22-4)	☒	☐	☐	Concentration	mg/l	ND		1				
					Mass	lbs/day	ND		1				

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
1.13	Zinc, total (7440-66-6)	☒	☐	☐	Concentration	mg/l	0.0107			1		
					Mass	lbs/day	0.61			1		
1.14	Cyanide, total (57-12-5)	☒	☐	☐	Concentration	mg/l	0.005			1		
					Mass	lbs/day	0.29			1		
1.15	Phenols, total	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.2	Acrylonitrile (107-13-1)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.3	Benzene (71-43-2)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.4	Bromoform (75-25-2)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.5	Carbon tetrachloride (56-23-5)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.6	Chlorobenzene (108-90-7)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.7	Chlorodibromomethane (124-48-1)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.8	Chloroethane (75-00-3)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		

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	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.10	Chloroform (67-66-3)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.11	Dichlorobromomethane (75-27-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.12	1,1-dichloroethane (75-34-3)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.13	1,2-dichloroethane (107-06-2)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.14	1,1-dichloroethylene (75-35-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.15	1,2-dichloropropane (78-87-5)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.16	1,3-dichloropropylene (542-75-6)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.17	Ethylbenzene (100-41-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.18	Methyl bromide (74-83-9)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.19	Methyl chloride (74-87-3)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.20	Methylene chloride (75-09-2)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		

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	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.23	Toluene (108-88-3)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.24	1,2-trans-dichloroethylene (156-60-5)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.25	1,1,1-trichloroethane (71-55-6)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.26	1,1,2-trichloroethane (79-00-5)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.27	Trichloroethylene (79-01-6)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.28	Vinyl chloride (75-01-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.2	2,4-dichlorophenol (120-83-2)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.3	2,4-dimethylphenol (105-67-9)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.4	4,6-dinitro-o-cresol (534-52-1)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.5	2,4-dinitrophenol (51-28-5)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		

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			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	☒	☐	☐	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
3.7	4-nitrophenol (100-02-7)	☒	☐	☐	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
3.8	p-chloro-m-cresol (59-50-7)	☒	☐	☐	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
3.9	Pentachlorophenol (87-86-5)	☒	☐	☐	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
3.10	Phenol (108-95-2)	☒	☐	☐	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
3.11	2,4,6-trichlorophenol (88-05-2)	☒	☐	☐	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)											
4.1	Acenaphthene (83-32-9)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.2	Acenaphthylene (208-96-8)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.3	Anthracene (120-12-7)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.4	Benzidine (92-87-5)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.5	Benzo (a) anthracene (56-55-3)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.6	Benzo (a) pyrene (50-32-8)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		

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			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.8	Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.9	Benzo (k) fluoranthene (207-08-9)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.11	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration							
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration	mg/l	0.016			1		
					Mass	lbs/day	0.91			1		
4.14	4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.15	Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.16	2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.18	Chrysene (218-01-9)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.19	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☒	Concentration						
					Mass						
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration						
					Mass						
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration						
					Mass						
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration	mg/l	ND		1		
					Mass	lbs/day	ND		1		
4.24	Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration	mg/l	ND		1		
					Mass	lbs/day	ND		1		
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration	mg/l	ND		1		
					Mass	lbs/day	ND		1		
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration	mg/l	ND		1		
					Mass	lbs/day	ND		1		
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration	mg/l	ND		1		
					Mass	lbs/day	ND		1		
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration	mg/l	ND		1		
					Mass	lbs/day	ND		1		
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration	mg/l	ND		1		
					Mass	lbs/day	ND		1		
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration	mg/l	ND		1		
					Mass	lbs/day	ND		1		
4.31	Fluoranthene (206-44-0)	☐	☐	☒	Concentration						
					Mass						
4.32	Fluorene (86-73-7)	☐	☐	☒	Concentration	mg/l	ND		1		
					Mass	lbs/day	ND		1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.34	Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.35	Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.36	Hexachloroethane (67-72-1)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.38	Isophorone (78-59-1)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.39	Naphthalene (91-20-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.40	Nitrobenzene (98-95-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.41	N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.42	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.43	N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.44	Phenanthrene (85-01-8)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.45	Pyrene (129-00-0)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)		
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.46	1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration	mg/l	ND				1		
					Mass	lbs/day	ND				1		
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)													
5.1	Aldrin (309-00-2)	☐	☐	☒	Concentration								
					Mass								
5.2	α -BHC (319-84-6)	☐	☐	☒	Concentration								
					Mass								
5.3	β -BHC (319-85-7)	☐	☐	☒	Concentration								
					Mass								
5.4	γ -BHC (58-89-9)	☐	☐	☒	Concentration								
					Mass								
5.5	δ -BHC (319-86-8)	☐	☐	☒	Concentration								
					Mass								
5.6	Chlordane (57-74-9)	☐	☐	☒	Concentration								
					Mass								
5.7	4,4'-DDT (50-29-3)	☐	☐	☒	Concentration								
					Mass								
5.8	4,4'-DDE (72-55-9)	☐	☐	☒	Concentration								
					Mass								
5.9	4,4'-DDD (72-54-8)	☐	☐	☒	Concentration								
					Mass								
5.10	Dieldrin (60-57-1)	☐	☐	☒	Concentration								
					Mass								
5.11	α -endosulfan (115-29-7)	☐	☐	☒	Concentration								
					Mass								

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.12	β-endosulfan (115-29-7)	☐	☐	☒	Concentration							
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration							
					Mass							
5.14	Endrin (72-20-8)	☐	☐	☒	Concentration							
					Mass							
5.15	Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration							
					Mass							
5.16	Heptachlor (76-44-8)	☐	☐	☒	Concentration							
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration							
					Mass							
5.18	PCB-1242 (53469-21-9)	☐	☐	☒	Concentration							
					Mass							
5.19	PCB-1254 (11097-69-1)	☐	☐	☒	Concentration							
					Mass							
5.20	PCB-1221 (11104-28-2)	☐	☐	☒	Concentration							
					Mass							
5.21	PCB-1232 (11141-16-5)	☐	☐	☒	Concentration							
					Mass							
5.22	PCB-1248 (12672-29-6)	☐	☐	☒	Concentration							
					Mass							
5.23	PCB-1260 (11096-82-5)	☐	☐	☒	Concentration							
					Mass							
5.24	PCB-1016 (12674-11-2)	☐	☐	☒	Concentration							
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)	☐	☐	☒	Concentration							
					Mass							

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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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)			
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses		
☐ Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for <i>each</i> pollutant.											
☐ Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for <i>each</i> pollutant.											
1. Bromide (24959-67-9)	☒	☐	Concentration	mg/l	ND			1			
			Mass	lbs/day	ND			1			
2. Chlorine, total residual	☐	☒	Concentration								
			Mass								
3. Color	☐	☒	Concentration	ADMI	29.0			1			
			Mass	NA							
4. Fecal coliform	☒	☐	Concentration	MPD/100r	181			1			
			Mass	NA							
5. Fluoride (16984-48-8)	☒	☐	Concentration	mg/l	0.140			1			
			Mass	lbs/day	8.0			1			
6. Nitrate-nitrite	☒	☐	Concentration	mg/l	7.42	7.42	1.51	29			
			Mass	lbs/day	373	373	78	29			
7. Nitrogen, total organic (as N)	☒	☐	Concentration	mg/l	2.57			1			
			Mass	lbs/day	147			1			
8. Oil and grease	☒	☐	Concentration	mg/l	ND			1			
			Mass	lbs/day	ND			1			
9. Phosphorus (as P), total (7723-14-0)	☒	☐	Concentration	mg/l	3.2	3.2	0.96	30			
			Mass	lbs/day	156	156	52	30			
10. Sulfate (as SO ₄) (14808-79-8)	☒	☐	Concentration	mg/l	59.3			1			
			Mass	lbs/day	3380			1			
11. Sulfide (as S)	☒	☐	Concentration	mg/l	ND			1			
			Mass	lbs/day	ND			1			

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (Optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO ₃) (14265-45-3)	☒	☐	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
13.	Surfactants	☐	☒	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
14.	Aluminum, total (7429-90-5)	☒	☐	Concentration	mg/l	0.094			1		
				Mass	lbs/day	5.33			1		
15.	Barium, total (7440-39-3)	☒	☐	Concentration	mg/l	0.028			1		
				Mass	lbs/day	1.59			1		
16.	Boron, total (7440-42-8)	☒	☐	Concentration	mg/l	0.674			1		
				Mass	lbs/day	36.9			1		
17.	Cobalt, total (7440-48-4)	☒	☐	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
18.	Iron, total (7439-89-6)	☒	☐	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
19.	Magnesium, total (7439-95-4)	☒	☐	Concentration	mg/l	5.6			1		
				Mass	lbs/day	320			1		
20.	Molybdenum, total (7439-98-7)	☒	☐	Concentration	mg/l	0.0076			1		
				Mass	lbs/day	0.43			1		
21.	Manganese, total (7439-96-5)	☒	☐	Concentration	mg/l	0.0064			1		
				Mass	lbs/day	0.36			1		
22.	Tin, total (7440-31-5)	☒	☐	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
23.	Titanium, total (7440-32-6)	☒	☐	Concentration	mg/l	0.0027			1		
				Mass	lbs/day	0.15			1		

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration						
			Mass						
Beta, total	☐	☒	Concentration						
			Mass						
Radium, total	☐	☒	Concentration						
			Mass						
Radium 226, total	☐	☒	Concentration						
			Mass						

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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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☒		
2.	Acetaldehyde	☐	☒	Trace amounts or less in paper mill chemicals.	
3.	Allyl alcohol	☐	☒		
4.	Allyl chloride	☐	☒		
5.	Amyl acetate	☐	☒		
6.	Aniline	☐	☒		
7.	Benzonitrile	☐	☒		
8.	Benzyl chloride	☐	☒		
9.	Butyl acetate	☐	☒		
10.	Butylamine	☐	☒		
11.	Captan	☐	☒		
12.	Carbaryl	☐	☒		
13.	Carbofuran	☐	☒		
14.	Carbon disulfide	☐	☒		
15.	Chlorpyrifos	☐	☒		
16.	Coumaphos	☐	☒		
17.	Cresol	☐	☒		
18.	Crotonaldehyde	☐	☒		
19.	Cyclohexane	☐	☒		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21.	Diazinon	☐	☒		
22.	Dicamba	☐	☒		
23.	Dichlobenil	☐	☒		
24.	Dichlone	☐	☒		
25.	2,2-dichloropropionic acid	☐	☒		
26.	Dichlorvos	☐	☒		
27.	Diethyl amine	☐	☒		
28.	Dimethyl amine	☐	☒		
29.	Dinitrobenzene	☐	☒		
30.	Diquat	☐	☒		
31.	Disulfoton	☐	☒		
32.	Diuron	☐	☒		
33.	Epichlorohydrin	☐	☒		
34.	Ethion	☐	☒		
35.	Ethylene diamine	☐	☒		
36.	Ethylene dibromide	☐	☒		
37.	Formaldehyde	☐	☒	Trace amounts or less in dry polymers and defoamers.	
38.	Furfural	☐	☒		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☒		
40.	Isoprene	☐	☒		
41.	Isopropanolamine	☐	☒		
42.	Kelthane	☐	☒		
43.	Kepone	☐	☒		
44.	Malathion	☐	☒		
45.	Mercaptodimethur	☐	☒		
46.	Methoxychlor	☐	☒		
47.	Methyl mercaptan	☐	☒		
48.	Methyl methacrylate	☐	☒		
49.	Methyl parathion	☐	☒		
50.	Mevinphos	☐	☒		
51.	Mexacarbate	☐	☒		
52.	Monoethyl amine	☐	☒		
53.	Monomethyl amine	☐	☒		
54.	Naled	☐	☒		
55.	Naphthenic acid	☐	☒		
56.	Nitrotoluene	☐	☒		
57.	Parathion	☐	☒		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☒		
59.	Phosgene	☐	☒		
60.	Propargite	☐	☒		
61.	Propylene oxide	☐	☒	Trace amounts or less in paper mill chemicals.	
62.	Pyrethrins	☐	☒		
63.	Quinoline	☐	☒		
64.	Resorcinol	☐	☒		
65.	Strontium	☐	☒		
66.	Strychnine	☐	☒		
67.	Styrene	☐	☒		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☒		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71.	Trichlorofon	☐	☒		
72.	Triethanolamine	☐	☒		
73.	Triethylamine	☐	☒		
74.	Trimethylamine	☐	☒		
75.	Uranium	☐	☒		
76.	Vanadium	☐	☒		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☒		
78.	Xylene	☐	☒		
79.	Xylenol	☐	☒		
80.	Zirconium	☐	☒		

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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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

Appendix D EPA Form 2C – Outfall DSN02A1

Water Permits Division



Application Form 2C

Existing Manufacturing, Commercial, Mining, and Silvicultural Operations

NPDES Permitting Program

Note: Complete this form *and* Form 1 if your facility is an existing manufacturing, commercial, mining, or silvicultural facility that currently discharges process wastewater.

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Form 2C NPDES			U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS				
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))							
Outfall Location	1.1 Provide information on each of the facility's outfalls in the table below.						
	Outfall Number	Receiving Water Name	Latitude			Longitude	
	DSN02A1	Mulberry Creek to Tennessee	34°	46'	10" N	87°	53' 46" W
			°	'	"	°	'
			°	'	"	°	'
SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))							
Line Drawing	2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☒ Yes ☐ No						
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))							
Average Flows and Treatment	3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.						
	Outfall Number DSN02A1						
	Operations Contributing to Flow						
	Operation					Average Flow	
	Potential intermittent discharges (clarified river water,					0.009 mgd	
	commissioning waters, boiler water, steam condensate,					mgd	
	fire pump testing, and paper machine basement					mgd	
	overflow (normally sent to WWTP))					mgd	
	Treatment Units						
	Description (include size, flow rate through each treatment unit, retention time, etc.)					Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
See Sections 1.1 and 1.2 of the permit renewal application.					1-T, 1-U, 4-A	5Q	

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Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____			
		Operations Contributing to Flow			
		Operation	Average Flow		
					mgd
					mgd
					mgd
					mgd
		Treatment Units			
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge	
		Outfall Number _____			
		Operations Contributing to Flow			
		Operation	Average Flow		
					mgd
					mgd
					mgd
					mgd
		Treatment Units			
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge	
System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? ☒ Yes ☐ No → SKIP to Section 4.			
	3.3	Have you attached a list that identifies each user of the treatment works? ☐ Yes ☒ No			

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SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☒ Yes ☐ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
		Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
		DSN02A1	Fire pump testing	1 days/week	12 months/year	0.053 mgd	0.053 mgd	1 days
		DSN02A1	Paper Machine Overflow	Emergency days/week	NA months/year	0.24 mgd	0.24 mgd	1 days
		DSN02A1	Treated river water overflow	<1 days/week	<1 months/year	0.6 mgd	0.6 mgd	1 days
		DSN02A1	Commissioning water	<1 days/week	<1 months/year	0.25 mgd	0.25 mgd	1 days
		DSN02A1	Boiler area waters	<1 days/week	<1 months/year	0.09 mgd	.09 mgd	1 days
				days/week	months/year	mgd	mgd	days
			days/week	months/year	mgd	mgd	days	
			days/week	months/year	mgd	mgd	days	
			days/week	months/year	mgd	mgd	days	

SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))

Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☒ Yes ☐ No → SKIP to Section 6.		
	5.2	Provide the following information on applicable ELGs.		
		ELG Category	ELG Subcategory	Regulatory Citation
		Pulp, Paper, and Paperboard Point	Secondary Fiber Deink Subcategory	40 CFR 430, Subpart I
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☒ Yes ☐ No → SKIP to Section 6.		
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.		
		Outfall Number	Operation, Product, or Material	Quantity per Day
		DSN02A1	Production/converting of tissue, towel and napkin grades of paper	1,002,137

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SECTION 6. IMPROVEMENTS (40 CFR 122.21(g)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?		
		☐ Yes ☒ No → SKIP to Item 6.3.		
	6.2	Briefly identify each applicable project in the table below.		
	Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates
				Required Projected
	6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? <i>(optional item)</i>		
		☐ Yes ☐ No ☒ Not applicable		

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(g)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.			
	Table A. Conventional and Non-Conventional Pollutants			
	7.1	Are you requesting a waiver from your NPDES permitting authority for one or more of the Table A pollutants for any of your outfalls?		
		☐ Yes ☒ No → SKIP to Item 7.3.		
	7.2	If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application.		
		Outfall Number _____ Outfall Number _____ Outfall Number _____		
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?		
		☒ Yes ☐ No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls.		
	Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants			
	7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)		
	☒ Yes ☐ No → SKIP to Item 7.8.			
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?			
	☒ Yes ☐ No			
7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.			
	Primary Industry Category	Required GC/MS Fraction(s) (Check applicable boxes.)		
	Pulp, Paper, and Paperboard / Secondary Fiber Deink	☒ Volatile ☒ Acid ☐ Base/Neutral ☐ Pesticide		
		☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide		
		☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide		

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Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☒ Yes ☐ No	
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☒ Yes ☐ No	
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☒ Yes ☐ No	
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No	
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes ☐ No	
	Table C. Certain Conventional and Non-Conventional Pollutants		
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? ☒ Yes ☐ No	
	7.13	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes ☐ No	
	Table D. Certain Hazardous Substances and Asbestos		
	7.14	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes ☐ No	
	7.15	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? ☒ Yes ☐ No	
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)		
	7.16	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.	
	7.17	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes ☒ No	
SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))			
Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.	
	8.2	List the pollutants below.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

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SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(g)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
				☐ Yes ☐ No
				☐ Yes ☐ No

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(g)(12))

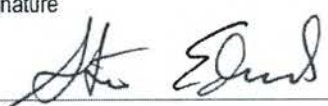
Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.		
	10.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
	Name of laboratory/firm	Eurofins Pensacola	Southern Environmental Testing	
	Laboratory address	3355 McLeMORE Drive Pensacola, FL 32514	3103 Northington Court Florence, AL 35630	
	Phone number	(850) 474-1001	(256) 740-5532	

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

Additional Information	11.1	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.		
	11.2	List the information requested and attach it to this application.		
	1.	4.		
	2.	5.		
	3.	6.		

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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement	12.1	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.	
		Column 1	Column 2
	☒	Section 1: Outfall Location	☐ w/ attachments
	☒	Section 2: Line Drawing	☒ w/ line drawing ☐ w/ additional attachments
	☒	Section 3: Average Flows and Treatment	☐ w/ attachments ☐ w/ list of each user of privately owned treatment works
	☒	Section 4: Intermittent Flows	☐ w/ attachments
	☒	Section 5: Production	☐ w/ attachments
	☒	Section 6: Improvements	☐ w/ attachments ☐ w/ optional additional sheets describing any additional pollution control plans
	☒	Section 7: Effluent and Intake Characteristics	☐ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☒ w/ Table A ☒ w/ Table B ☒ w/ Table C ☒ w/ Table D ☒ w/ Table E ☒ w/ analytical results as an attachment
	☒	Section 8: Used or Manufactured Toxics	☐ w/ attachments
	☒	Section 9: Biological Toxicity Tests	☐ w/ attachments
	☒	Section 10: Contract Analyses	☐ w/ attachments
	☒	Section 11: Additional Information	☐ w/ attachments
	☒	Section 12: Checklist and Certification Statement	☐ w/ attachments
	12.2	Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
	Name (print or type first and last name)	Official title	
	Steve Edwards	Site Manager	
	Signature	Date signed	
		3/25/25	

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

	Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (Optional)	
				Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD ₅)	☐	Concentration	mg/l	34.7			1	
			Mass	lbs/day	920.3			1	
2.	Chemical oxygen demand (COD)	☐	Concentration	mg/l	ND			1	
			Mass	lbs/day	ND			1	
3.	Total organic carbon (TOC)	☐	Concentration	mg/l	4.37			1	
			Mass	lbs/day	116			1	
4.	Total suspended solids (TSS)	☐	Concentration	mg/l	14.2			1	
			Mass	lbs/day	377			1	
5.	Ammonia (as N)	☐	Concentration	mg/l	ND			1	
			Mass	lbs/day	ND			1	
6.	Flow	☐	Rate	MGD	3.18			1	
7.	Temperature (winter)	☐	°C	°C	NA			NA	
	Temperature (summer)	☐	°C	°C	26			1	
8.	pH (minimum)	☐	Standard units	s.u.	7.42			1	
	pH (maximum)	☐	Standard units	s.u.	7.42			1	

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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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)			
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses		
☐	Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.												
Section 1. Toxic Metals, Cyanide, and Total Phenols													
1.1	Antimony, total (7440-36-0)	☒	☐	☐	Concentration	mg/l	ND			1			
					Mass	lbs/day	ND			1			
1.2	Arsenic, total (7440-38-2)	☒	☐	☐	Concentration	mg/l	ND			1			
					Mass	lbs/day	ND			1			
1.3	Beryllium, total (7440-41-7)	☒	☐	☐	Concentration	mg/l	ND			1			
					Mass	lbs/day	ND			1			
1.4	Cadmium, total (7440-43-9)	☒	☐	☐	Concentration	mg/l	ND			1			
					Mass	lbs/day	ND			1			
1.5	Chromium, total (7440-47-3)	☒	☐	☐	Concentration	ug/l	5			1			
					Mass	lbs/day	0.13			1			
1.6	Copper, total (7440-50-8)	☒	☐	☐	Concentration	ug/l	ND			1			
					Mass	lbs/day	ND			1			
1.7	Lead, total (7439-92-1)	☒	☐	☐	Concentration	mg/l	ND			1			
					Mass	lbs/day	ND			1			
1.8	Mercury, total (7439-97-6)	☒	☐	☐	Concentration	mg/l	ND			1			
					Mass	lbs/day	ND			1			
1.9	Nickel, total (7440-02-0)	☒	☐	☐	Concentration	mg/l	ND			1			
					Mass	lbs/day	ND			1			
1.10	Selenium, total (7782-49-2)	☒	☐	☐	Concentration	mg/l	ND			1			
					Mass	lbs/day	ND			1			
1.11	Silver, total (7440-22-4)	☒	☐	☐	Concentration	mg/l	ND			1			
					Mass	lbs/day	ND			1			

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	☒	☐	☐	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
1.13	Zinc, total (7440-66-6)	☒	☐	☐	Concentration ug/l	12.1			1		
					Mass lbs/day	0.32			1		
1.14	Cyanide, total (57-12-5)	☒	☐	☐	Concentration ug/l	ND			1		
					Mass lbs/day	ND			1		
1.15	Phenols, total	☒	☐	☐	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		

Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)

2.1	Acrolein (107-02-8)	☒	☐	☐	Concentration ug/l	ND			1		
					Mass lbs/day	ND			1		
2.2	Acrylonitrile (107-13-1)	☒	☐	☐	Concentration ug/l	ND			1		
					Mass lbs/day	ND			1		
2.3	Benzene (71-43-2)	☒	☐	☐	Concentration ug/l	ND			1		
					Mass lbs/day	ND			1		
2.4	Bromoform (75-25-2)	☒	☐	☐	Concentration ug/l	ND			1		
					Mass lbs/day	ND			1		
2.5	Carbon tetrachloride (56-23-5)	☒	☐	☐	Concentration ug/l	ND			1		
					Mass lbs/day	ND			1		
2.6	Chlorobenzene (108-90-7)	☒	☐	☐	Concentration ug/l	ND			1		
					Mass lbs/day	ND			1		
2.7	Chlorodibromomethane (124-48-1)	☒	☐	☐	Concentration ug/l	ND			1		
					Mass lbs/day	ND			1		
2.8	Chloroethane (75-00-3)	☒	☐	☐	Concentration ug/l	ND			1		
					Mass lbs/day	ND			1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.10	Chloroform (67-66-3)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.11	Dichlorobromomethane (75-27-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.12	1,1-dichloroethane (75-34-3)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.13	1,2-dichloroethane (107-06-2)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.14	1,1-dichloroethylene (75-35-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.15	1,2-dichloropropane (78-87-5)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.16	1,3-dichloropropylene (542-75-6)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.17	Ethylbenzene (100-41-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.18	Methyl bromide (74-83-9)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.19	Methyl chloride (74-87-3)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.20	Methylene chloride (75-09-2)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.21	1,1,2,2-tetrachloroethane (79-34-5)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.23	Toluene (108-88-3)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.24	1,2-trans-dichloroethylene (156-60-5)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.25	1,1,1-trichloroethane (71-55-6)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.26	1,1,2-trichloroethane (79-00-5)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.27	Trichloroethylene (79-01-6)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
2.28	Vinyl chloride (75-01-4)	☒	☐	☐	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.2	2,4-dichlorophenol (120-83-2)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.3	2,4-dimethylphenol (105-67-9)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.4	4,6-dinitro-o-cresol (534-52-1)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.5	2,4-dinitrophenol (51-28-5)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.7	4-nitrophenol (100-02-7)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.8	p-chloro-m-cresol (59-50-7)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.9	Pentachlorophenol (87-86-5)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.10	Phenol (108-95-2)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
3.11	2,4,6-trichlorophenol (88-05-2)	☒	☐	☐	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.2	Acenaphthylene (208-96-8)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.3	Anthracene (120-12-7)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.4	Benzidine (92-87-5)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.5	Benzo (a) anthracene (56-55-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.6	Benzo (a) pyrene (50-32-8)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.8	Benzo (ghi) perylene (191-24-2)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.9	Benzo (k) fluoranthene (207-08-9)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.11	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☒	Concentration						
					Mass						
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.14	4-bromophenyl phenyl ether (101-55-3)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.15	Butyl benzyl phthalate (85-68-7)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.16	2-chloronaphthalene (91-58-7)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.18	Chrysene (218-01-9)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		
4.19	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☒	Concentration mg/l	ND			1		
					Mass lbs/day	ND			1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☒	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☒	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☒	Concentration	ug/l	ND			1		
					Mass	lbs/day	ND			1		
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.24	Diethyl phthalate (84-66-2)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.31	Fluoranthene (206-44-0)	☐	☐	☒	Concentration							
					Mass							
4.32	Fluorene (86-73-7)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.34	Hexachlorobutadiene (87-68-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.35	Hexachlorocyclopentadiene (77-47-4)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.36	Hexachloroethane (67-72-1)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.38	Isophorone (78-59-1)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.39	Naphthalene (91-20-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.40	Nitrobenzene (98-95-3)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.41	N-nitrosodimethylamine (62-75-9)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.42	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.43	N-nitrosodiphenylamine (86-30-6)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.44	Phenanthrene (85-01-8)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		
4.45	Pyrene (129-00-0)	☐	☐	☒	Concentration	mg/l	ND			1		
					Mass	lbs/day	ND			1		

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)		
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.46	1,2,4-trichlorobenzene (120-82-1)	☐	☐	☒	Concentration	mg/l	ND				1		
					Mass	lbs/day	ND				1		
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)													
5.1	Aldrin (309-00-2)	☐	☐	☒	Concentration								
					Mass								
5.2	α -BHC (319-84-6)	☐	☐	☒	Concentration								
					Mass								
5.3	β -BHC (319-85-7)	☐	☐	☒	Concentration								
					Mass								
5.4	γ -BHC (58-89-9)	☐	☐	☒	Concentration								
					Mass								
5.5	δ -BHC (319-86-8)	☐	☐	☒	Concentration								
					Mass								
5.6	Chlordane (57-74-9)	☐	☐	☒	Concentration								
					Mass								
5.7	4,4'-DDT (50-29-3)	☐	☐	☒	Concentration								
					Mass								
5.8	4,4'-DDE (72-55-9)	☐	☐	☒	Concentration								
					Mass								
5.9	4,4'-DDD (72-54-8)	☐	☐	☒	Concentration								
					Mass								
5.10	Dieldrin (60-57-1)	☐	☐	☒	Concentration								
					Mass								
5.11	α -endosulfan (115-29-7)	☐	☐	☒	Concentration								
					Mass								

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	☐	☐	☒	Concentration						
					Mass						
5.13	Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration						
					Mass						
5.14	Endrin (72-20-8)	☐	☐	☒	Concentration						
					Mass						
5.15	Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration						
					Mass						
5.16	Heptachlor (76-44-8)	☐	☐	☒	Concentration						
					Mass						
5.17	Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration						
					Mass						
5.18	PCB-1242 (53469-21-9)	☐	☐	☒	Concentration						
					Mass						
5.19	PCB-1254 (11097-69-1)	☐	☐	☒	Concentration						
					Mass						
5.20	PCB-1221 (11104-28-2)	☐	☐	☒	Concentration						
					Mass						
5.21	PCB-1232 (11141-16-5)	☐	☐	☒	Concentration						
					Mass						
5.22	PCB-1248 (12672-29-6)	☐	☐	☒	Concentration						
					Mass						
5.23	PCB-1260 (11096-82-5)	☐	☐	☒	Concentration						
					Mass						
5.24	PCB-1016 (12674-11-2)	☐	☐	☒	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)	☐	☐	☒	Concentration							
					Mass							

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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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
☐ Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
1. Bromide (24959-67-9)	☒	☐	Concentration	mg/l	ND			1	
			Mass	lbs/day	ND			1	
2. Chlorine, total residual	☒	☐	Concentration	mg/l	0.151			1	
			Mass	lbs/day	4.0			1	
3. Color	☐	☒	Concentration	ADMI	13.0			1	
			Mass	NA					
4. Fecal coliform	☒	☐	Concentration	MPN/100	187			1	
			Mass	NA					
5. Fluoride (16984-48-8)	☒	☐	Concentration	mg/l	ND			1	
			Mass	lbs/day	ND			1	
6 Nitrate-nitrite	☒	☐	Concentration	mg/l	ND			1	
			Mass	lbs/day	ND			1	
7. Nitrogen, total organic (as N)	☒	☐	Concentration	mg/l	2.2			1	
			Mass	lbs/day	58.3				
8. Oil and grease	☒	☐	Concentration	mg/l	ND			1	
			Mass	lbs/day	ND			1	
9. Phosphorus (as P), total (7723-14-0)	☐	☒	Concentration	mg/l	ND			1	
			Mass	lbs/day	ND			1	
10. Sulfate (as SO ₄) (14808-79-8)	☒	☐	Concentration	mg/l	54.1			1	
			Mass	lbs/day	1435			1	
11. Sulfide (as S)	☒	☐	Concentration	mg/l	ND			1	
			Mass	lbs/day	ND			1	

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (Optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO ₃) (14265-45-3)	☒	☐	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
13.	Surfactants	☐	☒	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
14.	Aluminum, total (7429-90-5)	☒	☐	Concentration	mg/l	1.25			1		
				Mass	lbs/day	33.2			1		
15.	Barium, total (7440-39-3)	☒	☐	Concentration	mg/l	0.0140			1		
				Mass	lbs/day	0.37			1		
16.	Boron, total (7440-42-8)	☒	☐	Concentration	mg/l	0.0239			1		
				Mass	lbs/day	0.63			1		
17.	Cobalt, total (7440-48-4)	☒	☐	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
18.	Iron, total (7439-89-6)	☐	☒	Concentration	mg/l	1.29			1		
				Mass	lbs/day	34.2			1		
19.	Magnesium, total (7439-95-4)	☒	☐	Concentration	mg/l	1.06			1		
				Mass	lbs/day	28.1			1		
20.	Molybdenum, total (7439-98-7)	☒	☐	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
21.	Manganese, total (7439-96-5)	☒	☐	Concentration	mg/l	0.0301			1		
				Mass	lbs/day	0.80			1		
22.	Tin, total (7440-31-5)	☒	☐	Concentration	mg/l	ND			1		
				Mass	lbs/day	ND			1		
23.	Titanium, total (7440-32-6)	☐	☒	Concentration	mg/l	0.0367			1		
				Mass	lbs/day	0.97			1		

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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24.	Radioactivity									
	Alpha, total	☐	☒	Concentration						
				Mass						
	Beta, total	☐	☒	Concentration						
				Mass						
	Radium, total	☐	☒	Concentration						
				Mass						
	Radium 226, total	☐	☒	Concentration						
				Mass						

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 ALR000029868	NPDES Permit Number AL0074667	Facility Name Essity Professional Hygiene North	Outfall Number DSN02A1
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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☒		
2.	Acetaldehyde	☐	☒	Trace amounts or less in paper mill chemicals.	
3.	Allyl alcohol	☐	☒		
4.	Allyl chloride	☐	☒		
5.	Amyl acetate	☐	☒		
6.	Aniline	☐	☒		
7.	Benzonitrile	☐	☒		
8.	Benzyl chloride	☐	☒		
9.	Butyl acetate	☐	☒		
10.	Butylamine	☐	☒		
11.	Captan	☐	☒		
12.	Carbaryl	☐	☒		
13.	Carbofuran	☐	☒		
14.	Carbon disulfide	☐	☒		
15.	Chlorpyrifos	☐	☒		
16.	Coumaphos	☐	☒		
17.	Cresol	☐	☒		
18.	Crotonaldehyde	☐	☒		
19.	Cyclohexane	☐	☒		

EPA Identification Number ALR000029868	NPDES Permit Number AL0074667	Facility Name Essity Professional Hygiene North	Outfall Number DSN02A1
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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21.	Diazinon	☐	☒		
22.	Dicamba	☐	☒		
23.	Dichlobenil	☐	☒		
24.	Dichlone	☐	☒		
25.	2,2-dichloropropionic acid	☐	☒		
26.	Dichlorvos	☐	☒		
27.	Diethyl amine	☐	☒		
28.	Dimethyl amine	☐	☒		
29.	Dinitrobenzene	☐	☒		
30.	Diquat	☐	☒		
31.	Disulfoton	☐	☒		
32.	Diuron	☐	☒		
33.	Epichlorohydrin	☐	☒		
34.	Ethion	☐	☒		
35.	Ethylene diamine	☐	☒		
36.	Ethylene dibromide	☐	☒		
37.	Formaldehyde	☐	☒	Trace amounts or less in dry polymers and defoamers.	
38.	Furfural	☐	☒		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☒		
40.	Isoprene	☐	☒		
41.	Isopropanolamine	☐	☒		
42.	Kelthane	☐	☒		
43.	Kepone	☐	☒		
44.	Malathion	☐	☒		
45.	Mercaptodimethur	☐	☒		
46.	Methoxychlor	☐	☒		
47.	Methyl mercaptan	☐	☒		
48.	Methyl methacrylate	☐	☒		
49.	Methyl parathion	☐	☒		
50.	Mevinphos	☐	☒		
51.	Mexacarbate	☐	☒		
52.	Monoethyl amine	☐	☒		
53.	Monomethyl amine	☐	☒		
54.	Naled	☐	☒		
55.	Naphthenic acid	☐	☒		
56.	Nitrotoluene	☐	☒		
57.	Parathion	☐	☒		

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☒		
59.	Phosgene	☐	☒		
60.	Propargite	☐	☒		
61.	Propylene oxide	☐	☒	Trace amounts or less in paper mill chemicals.	
62.	Pyrethrins	☐	☒		
63.	Quinoline	☐	☒		
64.	Resorcinol	☐	☒		
65.	Strontium	☐	☒		
66.	Strychnine	☐	☒		
67.	Styrene	☐	☒		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☒		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71.	Trichlorofon	☐	☒		
72.	Triethanolamine	☐	☒		
73.	Triethylamine	☐	☒		
74.	Trimethylamine	☐	☒		
75.	Uranium	☐	☒		
76.	Vanadium	☐	☒		

EPA Identification Number ALR000029868	NPDES Permit Number AL0074667	Facility Name Essity Professional Hygiene North	Outfall Number DSN02A1
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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☒		
78.	Xylene	☐	☒		
79.	Xylenol	☐	☒		
80.	Zirconium	☐	☒		

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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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

Appendix E EPA Form 2F – Outfall DSN002

Water Permits Division



Application Form 2F

Stormwater Discharges Associated with Industrial Activity

NPDES Permitting Program

Note: Complete this form *and* Form 1 if you are a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity, excluding discharges from construction activity under 40 CFR 122.26(b)(14)(x) or (b)(15). If your discharge is composed of stormwater *and* non-stormwater, you must complete Forms 1 and 2F, *and* you must complete Form 2C, 2D, or 2E, as appropriate. See the "Instructions" inside for further details.

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SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))

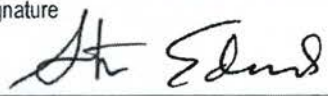
Site Drainage Map	3.1	Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)
	☒ Yes ☐ No	

SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))

Pollutant Sources	4.1	Provide information on the facility's pollutant sources in the table below.			
		Outfall Number	Impervious Surface Area (within a mile radius of the facility)		Total Surface Area Drained (within a mile radius of the facility)
		DSN002	65	specify units acres	142 specify units acres
				specify units	specify units
				specify units	specify units
				specify units	specify units
				specify units	specify units
				specify units	specify units
				specify units	specify units
		4.2	Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.) Most materials on-site are stored in either bulk storage tanks with secondary containment or stored in containers within on-site structures. Sludge generated from the facility WWTP is stored in bunkers. The facility maintains SPCC and BMP Plans.		
	4.3	Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)			
		Stormwater Treatment			
		Outfall Number	Control Measures and Treatment		Codes from Exhibit 2F-1 (list)
		DSN002	Containment dikes, sediment basins		1-U, 1-T,
					4-A

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SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))

Non-Stormwater Discharges	5.1	I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.			
		Name (print or type first and last name)	Official title		
		Steve Edwards	Site Manager		
		Signature	Date signed		
			3/25/25		
	5.2	Provide the testing information requested in the table below.			
		Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test
		NA			

SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))

Significant Leaks or Spills	6.1	Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years.
		NA

SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))

Discharge Information	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	7.1	Is this a new source or new discharge?
		☐ Yes → See instructions regarding submission of <i>estimated</i> data. ☒ No → See instructions regarding submission of <i>actual</i> data.
	Tables A, B, C, and D	
	7.2	Have you completed Table A for each outfall?
		☒ Yes ☐ No

EPA Identification Number ALR000029868		NPDES Permit Number AL0074667	Facility Name Essity Professional Hygiene North	Form Approved 03/05/19 OMB No. 2040-0004
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Discharge Information Continued	7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? ☒ Yes ☐ No → SKIP to Item 7.5.
	7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? ☒ Yes ☐ No
	7.5	Do you know or have reason to believe any pollutants in Exhibit 2F-2 are present in the discharge? ☒ Yes ☐ No → SKIP to Item 7.7.
	7.6	Have you listed all pollutants in Exhibit 2F-2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? ☒ Yes ☐ No
	7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? ☐ Yes → SKIP to Item 7.18. ☒ No
	7.8	Do you know or have reason to believe any pollutants in Exhibit 2F-3 are present in the discharge? ☐ Yes ☒ No → SKIP to Item 7.10.
	7.9	Have you listed all pollutants in Exhibit 2F-3 that you know or have reason to believe are present in the discharge in Table C? ☐ Yes ☐ No
	7.10	Do you expect any of the pollutants in Exhibit 2F-3 to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☒ No → SKIP to Item 7.12.
	7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F-3 that you expect to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☐ No
	7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☒ No → SKIP to Item 7.14.
	7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☐ No
	7.14	Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? ☒ Yes ☐ No
	7.15	Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge? ☐ Yes ☒ No → SKIP to Item 7.17.
	7.16	Have you listed pollutants in Exhibit 2F-4 that you know or believe to be present in the discharge and provided an explanation in Table C? ☐ Yes ☐ No
7.17	Have you provided information for the storm event(s) sampled in Table D? ☒ Yes ☐ No	

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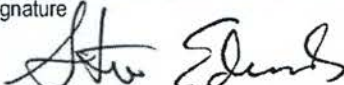
Discharge Information Continued	Used or Manufactured Toxics		
	7.18	Is any pollutant listed on Exhibits 2F-2 through 2F-4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 8.	
	7.19	List the pollutants below, including TCDD if applicable.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))					
Biological Toxicity Testing Data	8.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years? ☐ Yes ☒ No → SKIP to Section 9.			
	8.2	Identify the tests and their purposes below.			
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
				☐ Yes ☐ No	
				☐ Yes ☐ No	
			☐ Yes ☐ No		

SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))				
Contract Analysis Information	9.1	Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 10.		
	9.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
	Name of laboratory/firm	Southern Environmental Testing	Eurofins Pensacola	
	Laboratory address	3103 Northington Court Florence, AL 35630	3355 McLemore Drive Pensacola, FL 32514	
	Phone number	(256) 740-5532	(850) 474-1001	
	Pollutant(s) analyzed	Anions, Inorganics, Phosphorus	SVOCs	

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SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement	10.1	In Column 1 below, mark the sections of Form 2F that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.	
		Column 1	Column 2
	☒ Section 1	☐ w/ attachments (e.g., responses for additional outfalls)	
	☒ Section 2	☐ w/ attachments	
	☒ Section 3	☐ w/ site drainage map	
	☒ Section 4	☐ w/ attachments	
	☒ Section 5	☐ w/ attachments	
	☒ Section 6	☐ w/ attachments	
	☒ Section 7	☒ Table A ☐ w/ small business exemption request ☒ Table B ☒ w/ analytical results as an attachment ☒ Table C ☒ Table D	
	☒ Section 8	☐ w/attachments	
	☒ Section 9	☐ w/attachments (e.g., responses for additional contact laboratories or firms)	
	☒ Section 10	☐	
	10.2	Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Steve Edwards	Official title Site Manager
	Signature 	Date signed 3/05/25	

EPA Identification Number ALR000029868	NPDES Permit Number AL0074667	Facility Name Essity Professional Hygiene North	Outfall Number DSN002
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TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))¹

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

Pollutant or Parameter		Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		ND		1	
2.	Biochemical oxygen demand (BOD ₅)	8.26 mg/l	NA	8.26 mg/l	NA	1	
3.	Chemical oxygen demand (COD)	28.0	NA	28.0	NA	1	
4.	Total suspended solids (TSS)	51.6 mg/l	NA	51.6 mg/l	NA	1	
5.	Total phosphorus	1.15 mg/l	NA	1.15 mg/l	NA	1	
6.	Total Kjeldahl nitrogen (TKN)	1.62 mg/l	NA	1.62 mg/l	NA	1	
7.	Total nitrogen (as N)	1.62 mg/l	NA	1.62 mg/l	NA	1	
8.	pH (minimum)	7.35 s.u.		7.35 s.u.		1	
	pH (maximum)	7.35 s.u.		7.35 s.u.		1	

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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List each pollutant shown in Exhibits 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

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 ALR000029868	NPDES Permit Number AL0074667	Facility name Essity Professional Hygiene North	Outfall Number DSN002
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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
01/27/2025	7 hours	0.21 inches	168 hours	unknown	0.45 MGD

Provide a description of the method of flow measurement or estimate.

Flow is estimated using a runoff calculator.

Appendix F EPA Form 2F – Outfall DSN003



Application Form 2F

Stormwater Discharges Associated with Industrial Activity

NPDES Permitting Program

Note: Complete this form *and* Form 1 if you are a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity, excluding discharges from construction activity under 40 CFR 122.26(b)(14)(x) or (b)(15). If your discharge is composed of stormwater *and* non-stormwater, you must complete Forms 1 and 2F, *and* you must complete Form 2C, 2D, or 2E, as appropriate. See the "Instructions" inside for further details.

EPA Identification Number ALR000029868		NPDES Permit Number AL0074667		Facility Name Essity Professional Hygiene North		Form Approved 03/05/19 OMB No. 2040-0004	
Form 2F NPDES		U.S Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY					
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))							
Outfall Location	1.1 Provide information on each of the facility's outfalls in the table below						
	Outfall Number	Receiving Water Name	Latitude			Longitude	
	DSN003	UT to Mulberry Creek (to Tennessee River)	34°	45'	48" N	87°	53' 40" W
			°	'	"	°	' "
			°	'	"	°	' "
			°	'	"	°	' "
			°	'	"	°	' "
			°	'	"	°	' "
SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))							
Improvements	2.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?						
	☐ Yes ☒ No → SKIP to Section 3.						
	2.2 Briefly identify each applicable project in the table below.						
	Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge		Final Compliance Dates		
					Required	Projected	
2.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item)							
☐ Yes ☒ No							

EPA Identification Number ALR000029868	NPDES Permit Number AL0074667	Facility Name Essity Professional Hygiene North	Form Approved 03/05/19 OMB No. 2040-0004
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SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))

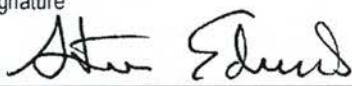
Site Drainage Map	3.1	Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.) ☒ Yes ☐ No
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SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))

Pollutant Sources	4.1	Provide information on the facility's pollutant sources in the table below.																											
		Outfall Number	Impervious Surface Area (within a mile radius of the facility)	Total Surface Area Drained (within a mile radius of the facility)																									
		DSN003	15	<i>specify units</i> acres	65 <i>specify units</i> acres																								
				<i>specify units</i>	<i>specify units</i>																								
				<i>specify units</i>	<i>specify units</i>																								
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				<i>specify units</i>	<i>specify units</i>																								
				<i>specify units</i>	<i>specify units</i>																								
	4.2	Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.) Most materials on-site are stored in either bulk storage tanks with secondary containment or stored in containers within on-site structures. Sludge generated from the facility WWTP is stored in bunkers. The facility maintains SPCC and BMP Plans.																											
	4.3	Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">Stormwater Treatment</th> </tr> <tr> <th style="width: 15%; text-align: center;">Outfall Number</th> <th style="width: 70%; text-align: center;">Control Measures and Treatment</th> <th style="width: 15%; text-align: center;">Codes from Exhibit 2F-1 (list)</th> </tr> <tr> <td style="text-align: center;">DSN003</td> <td>Near plant entrance: runoff through culverts & riprap, containment dikes, sediment basins</td> <td style="text-align: center;">1-U, 1-T,</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">4-A</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>				Stormwater Treatment			Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F-1 (list)	DSN003	Near plant entrance: runoff through culverts & riprap, containment dikes, sediment basins	1-U, 1-T,			4-A												
Stormwater Treatment																													
Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F-1 (list)																											
DSN003	Near plant entrance: runoff through culverts & riprap, containment dikes, sediment basins	1-U, 1-T,																											
		4-A																											

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SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))

Non-Stormwater Discharges	5.1	I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.			
		Name (print or type first and last name)	Official title		
		Steve Edwards	Site Manager		
		Signature	Date signed		
			3/25/25		
	5.2	Provide the testing information requested in the table below.			
		Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test
		NA			

SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))

Significant Leaks or Spills	6.1	Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years.
		NA

SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))

Discharge Information	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	7.1	Is this a new source or new discharge?
		☐ Yes → See instructions regarding submission of estimated data. ☒ No → See instructions regarding submission of actual data.
	Tables A, B, C, and D	
	7.2	Have you completed Table A for each outfall?
		☒ Yes ☐ No

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Discharge Information Continued	7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? ☒ Yes ☐ No → SKIP to Item 7.5.
	7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? ☒ Yes ☐ No
	7.5	Do you know or have reason to believe any pollutants in Exhibit 2F-2 are present in the discharge? ☒ Yes ☐ No → SKIP to Item 7.7.
	7.6	Have you listed all pollutants in Exhibit 2F-2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? ☒ Yes ☐ No
	7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? ☐ Yes → SKIP to Item 7.18. ☒ No
	7.8	Do you know or have reason to believe any pollutants in Exhibit 2F-3 are present in the discharge? ☐ Yes ☒ No → SKIP to Item 7.10.
	7.9	Have you listed all pollutants in Exhibit 2F-3 that you know or have reason to believe are present in the discharge in Table C? ☐ Yes ☐ No
	7.10	Do you expect any of the pollutants in Exhibit 2F-3 to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☒ No → SKIP to Item 7.12.
	7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F-3 that you expect to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☐ No
	7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☒ No → SKIP to Item 7.14.
	7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☐ No
	7.14	Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? ☒ Yes ☐ No
	7.15	Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge? ☐ Yes ☒ No → SKIP to Item 7.17.
	7.16	Have you listed pollutants in Exhibit 2F-4 that you know or believe to be present in the discharge and provided an explanation in Table C? ☐ Yes ☐ No
7.17	Have you provided information for the storm event(s) sampled in Table D? ☒ Yes ☐ No	

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Discharge Information Continued	Used or Manufactured Toxics		
	7.18	Is any pollutant listed on Exhibits 2F-2 through 2F-4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 8.	
	7.19	List the pollutants below, including TCDD if applicable.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))					
Biological Toxicity Testing Data	8.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years? ☐ Yes ☒ No → SKIP to Section 9.			
	8.2	Identify the tests and their purposes below.			
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
				☐ Yes ☐ No	
				☐ Yes ☐ No	
			☐ Yes ☐ No		

SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))				
Contract Analysis Information	9.1	Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 10.		
	9.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
	Name of laboratory/firm	Southern Environmental Testing	Eurofins Pensacola	
	Laboratory address	3103 Northington Court Florence, AL 35630	3355 McLemore Drive Pensacola, FL 32514	
	Phone number	(256) 740-5532	(850) 474-1001	
	Pollutant(s) analyzed	Anions, Inorganics, Phosphorus	SVOCs	

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SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))			
Checklist and Certification Statement	10.1	In Column 1 below, mark the sections of Form 2F that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.	
		Column 1	Column 2
	☒ Section 1	☐ w/ attachments (e.g., responses for additional outfalls)	
	☒ Section 2	☐ w/ attachments	
	☒ Section 3	☐ w/ site drainage map	
	☒ Section 4	☐ w/ attachments	
	☒ Section 5	☐ w/ attachments	
	☒ Section 6	☐ w/ attachments	
	☒ Section 7	☒ Table A ☐ w/ small business exemption request ☒ Table B ☒ w/ analytical results as an attachment ☒ Table C ☒ Table D	
	☒ Section 8	☐ w/attachments	
	☒ Section 9	☐ w/attachments (e.g., responses for additional contact laboratories or firms)	
	☒ Section 10	☐	
	10.2	Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Steve Edwards	Official title Site Manager
	Signature 	Date signed 3/25/25	

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))¹

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

Pollutant or Parameter		Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		ND		1	
2.	Biochemical oxygen demand (BOD ₅)	2.38 mg/l	NA	2.38 mg/l	NA	1	
3.	Chemical oxygen demand (COD)	12 mg/l	NA	12 mg/l	NA	1	
4.	Total suspended solids (TSS)	60.4 mg/l	NA	60.4 mg/l	NA	1	
5.	Total phosphorus	2.93 mg/l	NA	2.93 mg/l	NA	1	
6.	Total Kjeldahl nitrogen (TKN)	1.85 mg/l	NA	1.85 mg/l	NA	1	
7.	Total nitrogen (as N)	3.46 mg/l	NA	3.46 mg/l	NA	1	
8.	pH (minimum)	7.20 s.u.		7.20 s.u.		1	
	pH (maximum)	7.20 s.u.		7.20 s.u.		1	

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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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
01/27/2025	7 hours	0.21 inches	168 hours	unknown	0.07 MGD

Provide a description of the method of flow measurement or estimate.
Flow is estimated using a runoff calculator.

Appendix G Safety Data Sheets

SAFETY DATA SHEET

CONQUOR™ CNQR3588

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CONQUOR™ CNQR3588

Other means of identification : Not applicable.

Recommended use : CORROSION INHIBITOR

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company
1601 W. Diehl Road
Naperville, Illinois 60563-1198
USA
TEL: (630) 305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 09/28/2021

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

Skin sensitization : Category 1

Reproductive toxicity : Category 2

GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Combustible liquid
Harmful if swallowed or in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel

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unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Storage:

Store in a well-ventilated place.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration: (%)
Methoxypropylamine	5332-73-0	10 - 30
Cyclohexylamine	108-91-8	10 - 30
Diethylhydroxylamine	3710-84-7	1 - 5

Section: 4. FIRST AID MEASURES

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam
Carbon dioxide
Dry powder
Other extinguishing agent suitable for Class B fires
For large fires, use water spray or fog, thoroughly drenching the burning

SAFETY DATA SHEET

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material.

- Unsuitable extinguishing media : None known.
- Specific hazards during firefighting : Fire Hazard
Keep away from heat and sources of ignition.
Flash back possible over considerable distance.
- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides
nitrogen oxides (NOx)
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not ingest. Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
- Conditions for safe storage : Keep away from heat and sources of ignition. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
- Suitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.
- Unsuitable material : not determined

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Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Methoxypropylamine	5332-73-0	TWA	5 ppm	AIHA WEEL
		STEL	15 ppm	AIHA WEEL
Cyclohexylamine	108-91-8	TWA	10 ppm	ACGIH
		TWA	10 ppm 40 mg/m ³	NIOSH REL
Diethylhydroxylamine	3710-84-7	TWA	2 ppm	ACGIH

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles
Face-shield

Hand protection : Wear impervious chemical-resistant gloves when handling this product. The following glove types are recommended based on our review of glove manufacturer information and/or other available sources.
Butyl rubber
Viton® gloves
Other glove types may be used for short term, incidental contact if determined by testing to provide adequate worker protection.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : Use local exhaust ventilation or other engineering controls as necessary to control airborne mist and vapor.
Where concentrations in air may exceed the limits given in this section or when significant mists, vapors, aerosols are generated, an approved air purifying respirator equipped with suitable filter cartridges is recommended.
Use a particulate pre-filter where operations generate significant mists or aerosols.
Recommended gas and vapour cartridge:
Ammonia / amine cartridge.
In event of emergency or planned entry into unknown concentrations, a positive pressure, full-facepiece SCBA or supplied-air respirator should be used.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

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Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: clear
Odour	: amine-like
Flash point	: 70 °C, Method: ASTM D 93, Pensky-Martens closed cup
pH	: 12.8 - 13.0,(100)
Odour Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: 96.1 °C, Method: ASTM D 86
Evaporation rate	: no data available
Flammability (solid, gas)	: Not applicable.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: 24.8 mm Hg, ASTM D 5191,
Relative vapour density	: no data available
Relative density	: 0.949 - 0.961,
Density	: 7.9 - 8.01 lb/gal
Water solubility	: completely soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Molecular weight	: no data available
VOC	: 43.53 %, 419.3 g/l, EPA Method 24

Section: 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Heat, flames and sparks.

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Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : In case of fire, hazardous decomposition products may be produced such as:
Carbon oxides
nitrogen oxides (NOx)

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Harmful in contact with skin. Causes severe skin burns. May cause allergic skin reaction.

Ingestion : Harmful if swallowed. Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Suspected of damaging fertility or the unborn child.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Irritation, Corrosion, Allergic reactions

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity : Acute toxicity estimate: 1,234 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 200 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : Acute toxicity estimate: 1,275 mg/kg

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitization : no data available

Carcinogenicity : no data available

Reproductive effects : Prolonged exposure to cyclohexylamine in the diet has produced reproductive

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effects in rats. The relevance to humans is unknown.

Germ cell mutagenicity : A mutagenicity test battery on cyclohexylamine was inconclusive. In a short-term test, cyclohexylamine caused mutation in human white blood cells. A bacterial mutagenicity (Ames) bioassay was negative for methoxypropylamine.

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : LC50 Pimephales promelas (fathead minnow): 220 mg/l
Exposure time: 96 hrs
Test substance: Product

NOEC Pimephales promelas (fathead minnow): 125 mg/l
Exposure time: 96 hrs
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates : LC50 Ceriodaphnia dubia: 157 mg/l
Exposure time: 48 hrs
Test substance: Product

LC50 Daphnia magna (Water flea): 274 mg/l
Exposure time: 48 hrs
Test substance: Product

NOEC Ceriodaphnia dubia: 62.5 mg/l
Exposure time: 48 hrs
Test substance: Product

Toxicity to fish (Chronic toxicity) : LOEC: 100 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product

NOEC: 50 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : LOEC: 25 mg/l
Exposure time: 7 Days
Species: Ceriodaphnia dubia
Test substance: Product
Test Type: 3 Brood

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NOEC: 12.5 mg/l
Exposure time: 7 Days
Species: Ceriodaphnia dubia
Test substance: Product
Test Type: 3 Brood

Components

Toxicity to algae : Methoxypropylamine
EC50 : 31 mg/l
Exposure time: 72 h

Diethylhydroxylamine
EC50 Pseudokirchneriella subcapitata (algae): > 101 mg/l
Exposure time: 72 h

Persistence and degradability

Chemical Oxygen Demand (COD): 1,100,000 mg/l

Biochemical Oxygen Demand (BOD):

Incubation Period	Value	Test Descriptor
5 d	11,200 mg/l	Product

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air : <5%
Water : 30 - 50%
Soil : 50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

no data available

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an

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approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

The presence of an RQ component (Reportable Quantity for U.S. DOT) in this product causes it to be regulated with an additional description of RQ for road, or as Environmentally hazardous for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

Land transport (DOT)

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
Technical name(s) : Cyclohexylamine, Methoxypropylamine
UN/ID No. : UN 2735
Transport hazard class(es) : 8
Packing group : II
Reportable Quantity (per package) : 470 lbs
RQ Component : Methoxypropylamine

Air transport (IATA)

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
Technical name(s) : Cyclohexylamine, Methoxypropylamine
UN/ID No. : UN 2735
Transport hazard class(es) : 8
Packing group : II
Reportable Quantity (per package) : 470 lbs
RQ Component : Methoxypropylamine

Sea transport (IMDG/IMO)

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
Technical name(s) : Cyclohexylamine, Methoxypropylamine
UN/ID No. : UN 2735
Transport hazard class(es) : 8
Packing group : II

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

SAFETY DATA SHEET

CONQUOR™ CNQR3588

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Cyclohexylamine	108-91-8	10000	47339

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Respiratory or skin sensitisation
Reproductive toxicity
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

Cyclohexylamine 108-91-8

The following components are subject to reporting levels established by SARA Title III, Section 302:

Cyclohexylamine 108-91-8

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory

On or in compliance with the active portion of the TSCA inventory

Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Korea. Korean Existing Chemicals Inventory (KECI)

All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)

Japan. ENCS - Existing and New Chemical Substances Inventory

This product contains substance(s) which are not in compliance with the Law Regulating the Manufacture and Importation Of Chemical Substances and are not listed on the Existing and New Chemical Substances list (ENCS).

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

SAFETY DATA SHEET

CONQUOR™ CNQR3588

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

China Inventory of Existing Chemical Substances

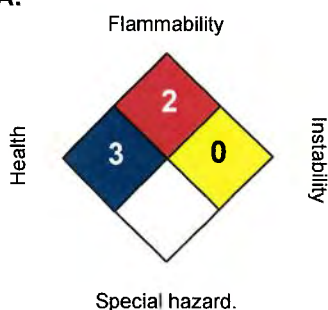
All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

Taiwan Chemical Substance Inventory

not determined

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 09/28/2021
Version Number : 1.5
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For additional copies of an SDS visit www.nalco.com and request access.

PRODUCT DESCRIPTION AND APPLICATION

CONQUOR 3588 is a corrosion inhibitor that contains neutralizing and metal passivating agents designed for use in steam and condensate systems. **CONQUOR 3588** contains high and medium volatility amines that provide effective neutralization of acidic gases, such as CO₂. It also contains DEHA for metal passivation. It may be used at temperatures up to 157°C (315°F). **CONQUOR 3588** effectively reduces condensate system maintenance costs and minimizes the potential of boiler tube failures caused by metallic corrosion products in the returned condensate.

PHYSICAL & CHEMICAL PROPERTIES

These properties are typical. Refer to the Safety Data Sheet (SDS) for the most current data.

Form	Liquid
Odor	Amine
Color	Clear light yellow
Density @ 25°C (77°F)	7.95 lb/gal
Specific Gravity @ 25°C (77°F)	0.95
Solubility in Water	Complete
pH 100% (typical)	12.9
Boiling Point	96°C (205°F)
Flash Point (PMCC)	70°C (158°F)
Vapor Pressure @ 25°C (68°F)	24.8 mm Hg
VOC (EPA Method 24)	43.53%

ACTIVE CONSTITUENTS

CONQUOR 3588 contains the volatile amines cyclohexylamine and methoxypropylamine, in addition to a diethylhydroxylamine metal passivator.

REGULATORY APPROVALS

Please refer to the SDS for the most recent approval information.

MATERIALS OF COMPATIBILITY

Compatible	Not Compatible
Carbon Steel	Buna-N
304 Stainless Steel	Copper
316 Stainless Steel	Copper Alloys
Polyethylene	EDPM
	Hypalon® elastomer
	Neoprene
	Plasite 7122
	Viton® synthetic rubber

DOSAGE AND FEEDING

The dosage of **CONQUOR 3588** will vary depending on the severity of the condensate environment. Exact dosage requirements will be determined by your on-site Nalco Water representative.

Overfeed of **CONQUOR 3588** will result in a high pH in the condensate system. In the presence of oxygen, this will result in increased copper corrosion. In addition, overfeed of **CONQUOR 3588** will also result in excessive treatment costs.

Underfeed of **CONQUOR 3588** will result in a low pH in the condensate system. Low condensate pH will result in corrosion of plant process and condensate equipment. This corrosion will increase the amount of iron or copper returned to the boilers. These corrosion products can form deposits in high heat flux areas of the boiler, leading to higher maintenance costs and potential tube failure.

ENVIRONMENTAL AND TOXICITY DATA

Refer to the Safety Data Sheet for all aquatic and mammalian toxicity information.

Biological Oxygen Demand (5-day BOD ₅) mg/l	11,200
Chemical Oxygen Demand (COD) mg/l	1,100,000

SAFETY AND HANDLING

Read the product label and Safety Data Sheet for complete safety and handling information prior to using this product. Please refer to the SDS for proper personal protective equipment (PPE) and for health effects.

Nalco Water, an Ecolab Company
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Naperville, Illinois 60563 USA

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8304 Wallisellen
Switzerland

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Av. Francisco Matarazzo
101 050
Sao Paulo - SP Brazil
CEP: 05008-100

Middle East and Africa
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PO BOX 262095, Dubai UAE

ecolab.com/nalco-water

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STORAGE

CONQUOR 3588 has a suggested in-plant storage limit of two years.

REMARKS

If you need assistance or more information on this product, please call your nearest Nalco Water representative.

For **Medical and Transportation Emergencies** involving Nalco Water products, please see the Safety Data Sheet for the phone number.

ADDITIONAL INFORMATION

Ecolab, Nalco Water, CONQUOR, ACT, NALCO, and the Logo are trademarks of Ecolab USA Inc. All other trademarks are the property of their respective owners.
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ecolab.com/nalco-water

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Shanghai China, 200062

Latin America
A4 Francisco Melarazzo
04 1350
Sao Paulo - SP Brazil
CEP: 05008-100

Middle East and Africa
Street 1010
Near Container Terminal 3
Jebel Ali Free Zone
PO BOX 262015, Dubai UAE

SAFETY DATA SHEET

NALCO® 60620

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCO® 60620

Other means of identification : Not applicable.

Recommended use : Proprietary Halogen Stabilizer

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company
1601 W. Diehl Road
Naperville, Illinois 60563-1198
USA
TEL: (630) 305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 01/24/2020

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4
Acute toxicity (Dermal) : Category 4

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Harmful if swallowed or in contact with skin

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing.
Response:
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
Wash contaminated clothing before reuse.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

SAFETY DATA SHEET

NALCO® 60620

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
Ammonium Sulfate	7783-20-2	20

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops and persists.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during firefighting : Not flammable or combustible.

Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Special protective equipment for firefighters : Use personal protective equipment.

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

SAFETY DATA SHEET

NALCO® 60620

- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Do not ingest. Wash hands thoroughly after handling. Use only with adequate ventilation.
- Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
- Suitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.
- Unsuitable material : not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

This product does not contain any substance that has an established exposure limit.

- Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

- Eye protection : Safety glasses
- Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : Wear suitable protective clothing.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

SAFETY DATA SHEET

NALCO® 60620

Appearance	: Liquid
Colour	: colourless
Odour	: ammoniacal
Flash point	: > 93.3 °C
pH	: 6.2,(100 %)
Odour Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: Not applicable.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 1.1, (22.8 °C),
Density	: 1.09 g/cm ³ , 9.1 lb/gal
Water solubility	: completely soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Molecular weight	: no data available
VOC	: 0 %, EPA Method 24

Section: 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Extremes of temperature
Incompatible materials	: Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires,

SAFETY DATA SHEET

NALCO® 60620

explosions and/or toxic vapors.

Hazardous decomposition products : Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulphur oxides
Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Health injuries are not known or expected under normal use.
Skin : Harmful in contact with skin.
Ingestion : Harmful if swallowed.
Inhalation : Health injuries are not known or expected under normal use.
Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : No information available.
Skin contact : No information available.
Ingestion : No information available.
Inhalation : No symptoms known or expected.

Toxicity

Product

Acute oral toxicity : no data available
Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available
Serious eye damage/eye irritation : no data available
Respiratory or skin sensitization : no data available
Carcinogenicity : no data available
Reproductive effects : no data available
Germ cell mutagenicity : no data available
Teratogenicity : no data available

SAFETY DATA SHEET

NALCO® 60620

STOT - single exposure : no data available
STOT - repeated exposure : no data available
Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : LC50 Pimephales promelas (fathead minnow): 1,460 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Lepomis macrochirus (Bluegill sunfish): 338 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

LC50 Oncorhynchus mykiss (rainbow trout): 722 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

NOEC Pimephales promelas (fathead minnow): 625 mg/l
Exposure time: 96 hrs
Test substance: Product

NOEC Lepomis macrochirus (Bluegill sunfish): 62.5 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

NOEC Oncorhynchus mykiss (rainbow trout): 250 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

Toxicity to daphnia and other aquatic invertebrates : LC50 Daphnia magna (Water flea): 4,044 mg/l
Exposure time: 48 hrs
Test substance: Product

NOEC Daphnia magna (Water flea): 1,250 mg/l
Exposure time: 48 hrs
Test substance: Product

LC50 Ceriodaphnia dubia: 1,137 mg/l
Exposure time: 48 hrs
Test substance: Product

NOEC Ceriodaphnia dubia: 648 mg/l
Exposure time: 48 hrs

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NALCO® 60620

Test substance: Product

Toxicity to fish (Chronic toxicity) : EC25 / IC25: 418 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product

LOEC: 500 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product

NOEC: 250 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : LOEC: 1,000 mg/l
Exposure time: 7 Days
Species: Ceriodaphnia dubia
Test substance: Product
Test Type: 3 Brood

EC25 / IC25: 572 mg/l
Exposure time: 7 Days
Species: Ceriodaphnia dubia
Test substance: Product
Test Type: 3 Brood

NOEC: 500 mg/l
Exposure time: 7 Days
Species: Ceriodaphnia dubia
Test substance: Product
Test Type: 3 Brood

Toxicity to terrestrial organisms : LD50 Bobwhite Quail: > 2,003 mg/kg
Exposure time: 14 Days
Test substance: Product

Persistence and degradability

Greater than 95% of this product consists of inorganic substances for which a biodegradation value is not applicable.

Chemical Oxygen Demand (COD): 400 mg/l

Biochemical Oxygen Demand (BOD):

Incubation Period	Value	Test Descriptor
5 d	< 30 mg/l	Product

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is

SAFETY DATA SHEET

NALCO® 60620

intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	: <5%
Water	: 30 - 50%
Soil	: 50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SAFETY DATA SHEET

NALCO® 60620

EPA Reg. No. : 1706-240

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory

This product is exempted under TSCA and regulated under FIFRA. The inerts are on the Inventory List.

Australia. Industrial Chemical (Notification and Assessment) Act

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)

All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

China Inventory of Existing Chemical Substances

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

Canadian Domestic Substances List (DSL)

Substances regulated under the Pest Control Products Act are exempt from CEPA New Substance Notification requirements.

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

SAFETY DATA SHEET

NALCO® 60620

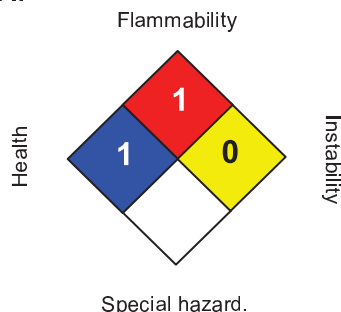
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

Taiwan Chemical Substance Inventory

On the inventory, or in compliance with the inventory

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 01/24/2020
Version Number : 1.7
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For additional copies of an SDS visit www.nalco.com and request access.

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCON® 10WB

Other means of identification : formerly BIOCHEK 10WB

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company
1601 W. Diehl Road
Naperville, Illinois 60563-1198
USA
TEL: (630)305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 02/09/2015

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1A

Serious eye damage/eye irritation : Category 1

Skin sensitization : Category 1

GHS Label element

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Toxic if swallowed.
Harmful in contact with skin or if inhaled
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all

SAFETY DATA SHEET

NALCON® 10WB

contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration: (%)
Methylenebisthiocyanate	6317-18-6	10
Propylene Glycol	57-55-6	1 - 5

Section: 4. FIRST AID MEASURES

In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
In case of skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	: Remove to fresh air. Treat symptomatically. Get medical attention.
Protection of first-aiders	: In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Notes to physician	: Treat symptomatically.
Most important symptoms and effects, both acute and delayed	: See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known.
Specific hazards during	: May evolve oxides of carbon (COx) under fire conditions.

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firefighting	May evolve oxides of nitrogen (NOx) and sulfur (SOx) under fire conditions.
Hazardous combustion products	: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
Special protective equipment for firefighters	: In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.
Specific extinguishing methods	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Restrict access to area as appropriate until clean-up operations are complete. Ensure clean-up is conducted by trained personnel only. Ventilate spill area if possible. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Notify appropriate government, occupational health and safety and environmental authorities.
Environmental precautions	: This product is toxic to fish and other water organisms. Do not discharge directly into lakes, ponds, streams, waterways or public water supplies.
Methods and materials for containment and cleaning up	: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	: Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.
Conditions for safe storage	: Store the containers tightly closed. Store separately from oxidizers. Store in suitable labeled containers.
Suitable material	: Keep in properly labelled containers.
Unsuitable material	: not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
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Propylene Glycol	57-55-6	TWA	10 mg/m3	WEEL
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Engineering measures : Effective exhaust ventilation system Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles
Face-shield

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.
Wash face, hands and any exposed skin thoroughly after handling.
Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Viscous liquid

Colour : orange

Odour : Characteristic

Flash point : > 93.3 °C

pH : 2.0 - 4.0, 100 %
(25 °C)Method: ASTM E 70

Odour Threshold : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling range : 100 °C

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : similar to water

Relative vapour density : no data available

Relative density : 1.0 - 1.1 (25 °C) ASTM D-1298

Density : 8.3 - 9.2 lb/gal

Water solubility : dispersible

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Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition temperature	: no data available
Viscosity, dynamic	: 150 mPa.s (20 °C) 650 - 1,500 mPa.s (25 °C)
Viscosity, kinematic	: no data available
VOC	: 10.5 %

Section: 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Extremes of temperature
Incompatible materials	: Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors. Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors. Strong bases Contact with strong alkalies (e.g. ammonia and its solutions, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanide, sulfide, hypochlorites, chlorites) may generate heat, splattering or boiling and toxic vapors.
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation, Eye contact, Skin contact
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Potential Health Effects

Eyes	: Causes serious eye damage.
Skin	: Harmful in contact with skin. Causes severe skin burns. May cause allergic skin reaction.
Ingestion	: Toxic if swallowed. Causes digestive tract burns.
Inhalation	: Harmful if inhaled. May cause nose, throat, and lung irritation.

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Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Irritation, Corrosion, Allergic reactions

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation : Species: Rabbit
Result: 3.8
Method: Draize Test
Test substance: Product

Serious eye damage/eye irritation : Species: rabbit
Result: 110.0
Method: Draize Test
Test substance: Product

Species: rabbit
Result: Extremely irritating (Corrosive)
Test substance: Product

Respiratory or skin sensitization : no data available

Carcinogenicity

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : no data available

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Germ cell mutagenicity : Not mutagenic in Ames Test.

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Components

Acute oral toxicity : Propylene Glycol
LD50 rat: 22,000 mg/kg

Components

Acute inhalation toxicity : Propylene Glycol
LC50 rat: > 158.5 mg/l
Exposure time: 4 h

Components

Acute dermal toxicity : Propylene Glycol
LD50 rabbit: > 2,000 mg/kg

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Toxic to aquatic life.

Product

Toxicity to fish : LC50 *Lepomis macrochirus* (Bluegill sunfish): 2.8 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

LC50 *Oncorhynchus mykiss* (rainbow trout): 1.9 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

LC50 *Pimephales promelas* (fathead minnow): 6.0 mg/l
Exposure time: 96 hrs
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates : LC50 *Daphnia magna* (Water flea): 0.48 mg/l
Exposure time: 48 hrs
Test substance: Product
Test Type: Static

Persistence and degradability

The organic portion of this preparation is expected to be readily biodegradable.

Mobility

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The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	:	<5%
Water	:	30 - 50%
Soil	:	50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Disposal methods : Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : METAL CONTAINERS: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. ^PLASTIC CONTAINERS: Do not reuse empty container. Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name	:	TOXIC LIQUID, ORGANIC, N.O.S.
Technical name(s)	:	Methylenebisthiocyanate

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UN/ID No. : UN 2810
Transport hazard class(es) : 6.1
Packing group : III

Air transport (IATA)

Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
Technical name(s) : Methylenebisthiocyanate
UN/ID No. : UN 2810
Transport hazard class(es) : 6.1
Packing group : III

Sea transport (IMDG/IMO)

Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
Technical name(s) : Methylenebisthiocyanate
UN/ID No. : UN 2810
Transport hazard class(es) : 6.1
Packing group : III

*Marine pollutant : METHYLENE-BIS-THIOCYANATE

*Note: This product is regulated as a Marine Pollutant when shipped by Rail, Highway (in bulk quantities), or Air (if no other hazard class applies), and when shipped by water in all quantities.

Section: 15. REGULATORY INFORMATION

EPA Reg. No. : 1706-200

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

TOXIC SUBSTANCES CONTROL ACT (TSCA)

This product is exempted under TSCA and regulated under FIFRA. The inerts are on the Inventory List.

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CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

This product contains substance(s) which are found on the Non-Domestic Substances List (NDSL), or are not in compliance with other Canadian Acts.

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

JAPAN

This product contains substance(s) which are not in compliance with the Law Regulating the Manufacture and Importation Of Chemical Substances and are not listed on the Existing and New Chemical Substances list (ENCS).

KOREA

This product contains substance(s) which are not in compliance with the Toxic Chemical Control Law (TCCL) and may require additional review.

NEW ZEALAND

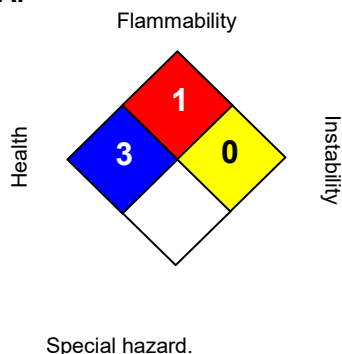
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 02/09/2015
Version Number : 1.0
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

SAFETY DATA SHEET

NALCON® 10WB

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

For additional copies of an MSDS visit www.nalco.com and request access.

SAFETY DATA SHEET

NALKAT® 7655

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALKAT® 7655

Other means of identification : Not applicable.

Recommended use : PAPER PROCESS AID

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company
1601 W. Diehl Road
Naperville, Illinois 60563-1198
USA
TEL: (630) 305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 01/26/2021

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

No hazardous ingredients

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms occur.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

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NALKAT® 7655

- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
- Notes to physician : No specific measures identified.
Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during firefighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Hydrogen chloride
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Wash hands thoroughly after handling. Use only with adequate ventilation.

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- Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
- Suitable material : The following compatibility data is suggested based on similar product data and/or industry experience: EPDM, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use., PVC, Buna-N, Polypropylene, Polyethylene, Neoprene, Polyurethane, 100% phenolic resin liner, Epoxy phenolic resin, Fluoroelastomer, Chlorosulfonated polyethylene rubber
- Unsuitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Brass, HDPE (high density polyethylene), Mild steel, Stainless Steel 316L, Stainless Steel 304

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

- Eye protection : Safety glasses
- Hand protection : Wear protective gloves.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : Wear suitable protective clothing.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Colour : colourless
- Odour : Slight
- Flash point : does not flash
- pH : 7.0 - 8.5,(100 %), Method: ASTM E 70
- Odour Threshold : no data available

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Melting point/freezing point	: Freezing Point: -6.7 °C, ASTM D-1177
Initial boiling point and boiling range	: > 98.9 °C, (760 mm Hg)
Evaporation rate	: no data available
Flammability (solid, gas)	: Not applicable.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 1.14 - 1.18, (25 °C), ASTM D-1298
Density	: 9.5 - 9.8 lb/gal
Water solubility	: completely soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: 125 - 400 mPa.s (25 °C), Method: ASTM D 2983
Viscosity, kinematic	: no data available
Molecular weight	: no data available
VOC	: 0 %, 0 g/l, EPA Method 24

Section: 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.
Hazardous decomposition products	: Carbon oxides nitrogen oxides (NOx) Hydrogen chloride

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation, Eye contact, Skin contact

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exposure

Potential Health Effects

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

No symptoms known or expected.

Inhalation : No symptoms known or expected.

Toxicity

Product

Acute oral toxicity : LD50 rat: > 5,000 mg/kg
Test substance: Similar Product

Acute inhalation toxicity : no data available

Acute dermal toxicity : LD50 rabbit: > 2,000 mg/kg
Test substance: Similar Product

Skin corrosion/irritation : Result: 0.1
Method: Draize Test
Test substance: Similar Product

Serious eye damage/eye irritation : Result: 9.0
Method: Draize Test
Test substance: Similar Product

Respiratory or skin sensitization : no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : Not mutagenic in Ames Test. Only TA100 strain tested.

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

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Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects : Harmful to aquatic life with long lasting effects.

Product

Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout): 17.3 mg/l
Exposure time: 96 hrs
Test substance: Tested with 5 mg/L Humic Acid

LC50 *Oncorhynchus mykiss* (rainbow trout): 17.3 mg/l
Exposure time: 96 hrs
Test substance: Tested with 10 mg/L Humic Acid

Toxicity to daphnia and other aquatic invertebrates : LC50 *Daphnia magna* (Water flea): 0.7 mg/l
Exposure time: 48 hrs
Test substance: Product tested in clean water

LC50 *Daphnia magna* (Water flea): 10 - 100 mg/l
Exposure time: 48 hrs
Test substance: Representative polymer tested in water with DOC

NOEC *Daphnia magna* (Water flea): 0.25 mg/l
Exposure time: 48 hrs
Test substance: Product tested in clean water

Toxicity to fish (Chronic toxicity) : EC25 / IC25: 0.4 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product tested in clean water

LOEC: 0.56 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product tested in clean water

NOEC: 0.28 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product tested in clean water

Persistence and degradability

Total Organic Carbon (TOC) : 160,000 mg/l

Chemical Oxygen Demand (COD): 330,000 mg/l

Biochemical Oxygen Demand (BOD):
Incubation Period Value

Test Descriptor

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NALKAT® 7655

5 d

0 mg/l

Product

Mobility

The portion in water is expected to be soluble or dispersible.

Air	:	<5%
Water	:	<5%
Soil	:	> 90%

Bioaccumulative potential

No bioaccumulation will occur. The large size of the polymer is incompatible with transport across the cellular membranes.

Other information

The hazard characterization is based on the tests or potential hazard in the clean water.

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product may contain trace levels of substance(s) listed under the State of California Proposition 65 regulation.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory

On the inventory, or in compliance with the inventory.

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)

All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

China Inventory of Existing Chemical Substances

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

SAFETY DATA SHEET

NALKAT® 7655

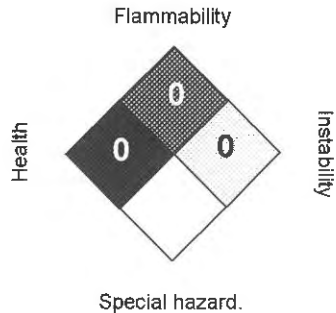
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

Taiwan Chemical Substance Inventory

All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 01/26/2021
Version Number : 1.2
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

For additional copies of an SDS visit www.nalco.com and request access.

SAFETY DATA SHEET

NexGuard™ 22310

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NexGuard™ 22310

Other means of identification : Not applicable.

Recommended use : BOILER WATER INTERNAL TREATMENT

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company
1601 W. Diehl Road
Naperville, Illinois 60563-1198
USA
TEL: (630) 305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 08/28/2024

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

No hazardous ingredients

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms occur.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

SAFETY DATA SHEET

NexGuard™ 22310

- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during firefighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : For personal protection see section 8. Wash hands after handling.
- Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers. Protect product from freezing.

SAFETY DATA SHEET

NexGuard™ 22310

Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.

- Suitable material : The following compatibility data is suggested based on similar product data and/or industry experience: PVC, Stainless Steel 304, EPDM, Buna-N, HDPE (high density polyethylene), Polyurethane, Neoprene, Polypropylene, Polyethylene, Stainless Steel 316L, 100% phenolic resin liner, Chlorosulfonated polyethylene rubber, Fluoroelastomer, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.
- Unsuitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Brass, Mild steel, Epoxy phenolic resin

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

- Eye protection : Safety glasses
- Hand protection : Wear protective gloves.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : Wear suitable protective clothing.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Colour : yellow-orange fluorescent
- Odour : ammoniacal
- Flash point : does not flash
- pH : 8.5 - 12.5, (25 °C)
- Odour Threshold : no data available
- Melting point/freezing point : Freezing Point: -6 °C, ASTM D-1177
- Initial boiling point and boiling range : no data available

SAFETY DATA SHEET

NexGuard™ 22310

Evaporation rate	: no data available
Flammability (solid, gas)	: Not applicable.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: similar to water
Relative vapour density	: no data available
Relative density	: 1.17 - 1.22, (25 °C),
Density	: 9.9 lb/gal
Water solubility	: completely soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Molecular weight	: no data available
VOC	: no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Freezing temperatures. None known.
Incompatible materials	: Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.
Hazardous decomposition products	: In case of fire, hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NOx) Sulphur oxides

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation, Eye contact, Skin contact, Ingestion
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SAFETY DATA SHEET

NexGuard™ 22310

Potential Health Effects

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Toxicity

Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitization : no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

SAFETY DATA SHEET

NexGuard™ 22310

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout): 7,070 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Inland Silverside: > 5,000 mg/l
Exposure time: 96 hrs
Test substance: Product

NOEC Inland Silverside: 5,000 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Fathead Minnow: 2,935 mg/l
Exposure time: 48 hrs
Test substance: Product

LC50 Fathead Minnow: 2,861 mg/l
Exposure time: 96 hrs
Test substance: Product

NOEC Fathead Minnow: 2,160 mg/l
Exposure time: 96 hrs
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates : LC50 Daphnia magna (Water flea): 1,650 mg/l
Exposure time: 48 hrs
Test substance: Product

LC50 Mysid Shrimp (Mysidopsis bahia): > 5,000 mg/l
Exposure time: 96 hrs
Test substance: Product

NOEC Mysid Shrimp (Mysidopsis bahia): 5,000 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Ceriodaphnia dubia: 1,473 mg/l
Exposure time: 48 hrs
Test substance: Product

NOEC Ceriodaphnia dubia: 778 mg/l
Exposure time: 48 hrs
Test substance: Product

Persistence and degradability

Biodegradability : Result: Biodegradable/Eliminated from aquatic environment

The organic portion of this preparation is expected to be poorly biodegradable.

Total Organic Carbon (TOC) : 87,000 mg/l

Chemical Oxygen Demand (COD): 240,000 mg/l

Biochemical Oxygen Demand (BOD):

SAFETY DATA SHEET

NexGuard™ 22310

Incubation Period	Value	Test Descriptor
5 d	6,200 mg/l	Product

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	: <5%
Water	: 10 - 30%
Soil	: 50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

SAFETY DATA SHEET

NexGuard™ 22310

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory

On or in compliance with the active portion of the TSCA inventory

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)

This product and/or component(s) are exempt or excluded from the Korean Existing Chemicals List (KECL) under the Toxic Chemicals Control Law (TCCL).

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

SAFETY DATA SHEET

NexGuard™ 22310

China Inventory of Existing Chemical Substances

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

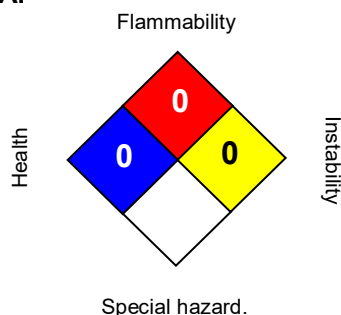
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

Taiwan Chemical Substance Inventory

All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 08/28/2024
Version Number : 1.4
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For additional copies of an SDS visit www.ecolab.com/sds and request access.

SAFETY DATA SHEET

PERMATREAT™ PC-191T

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PERMATREAT™ PC-191T

Other means of identification : Not applicable.

Recommended use : REVERSE OSMOSIS ANTISCALANT

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company
1601 W. Diehl Road
Naperville, Illinois 60563-1198
USA
TEL: (630) 305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 10/07/2021

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

No hazardous ingredients

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms occur.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

SAFETY DATA SHEET

PERMATREAT™ PC-191T

If inhaled	: Get medical attention if symptoms occur.
Protection of first-aiders	: In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Notes to physician	: Treat symptomatically.
Most important symptoms and effects, both acute and delayed	: See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known.
Specific hazards during firefighting	: Not flammable or combustible.
Hazardous combustion products	: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
Special protective equipment for firefighters	: Use personal protective equipment.
Specific extinguishing methods	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: No special environmental precautions required.
Methods and materials for containment and cleaning up	: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	: For personal protection see section 8. Wash hands after handling.
Conditions for safe storage	: Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.

SAFETY DATA SHEET

PERMATREAT™ PC-191T

- Suitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Stainless Steel 304, Stainless Steel 316**, Brass, CPVC (rigid), HDPE (high density polyethylene), LLDPE, Nylon 11, PVC, Teflon (PTFE), Polyvinylidene difluoride, UHMWPE, Neoprene, EPDM, Viton, Buna-N
- Unsuitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Mild steel

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

- Eye protection : Safety glasses
- Hand protection : Wear protective gloves.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : Wear suitable protective clothing.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Colour : clear amber - yellow green
- Odour : Ammoniacal
- Flash point : > 93.3 °C
- pH : 10.0 - 11.5,(1 %), (25 °C)
- Odour Threshold : no data available
- Melting point/freezing point : no data available
- Initial boiling point and boiling range : no data available
- Evaporation rate : no data available
- Flammability (solid, gas) : Not applicable.
- Upper explosion limit : no data available

SAFETY DATA SHEET

PERMATREAT™ PC-191T

Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 1.335 - 1.362, (15.6 °C),
Density	: 1.127 g/cm ³ , 11.3 lb/gal
Water solubility	: completely soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: Pow: 3.5, log Pow: 0.544
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Molecular weight	: no data available
VOC	: 0 %, Calculation method

Section: 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Freezing temperatures.
Incompatible materials	: None known.
Hazardous decomposition products	: In case of fire, hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NO _x) Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.

SAFETY DATA SHEET

PERMATREAT™ PC-191T

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Toxicity

Product

Acute oral toxicity : LD50 rat: > 17,800 mg/kg
Test substance: Similar Product

Acute inhalation toxicity : no data available

Acute dermal toxicity : LD50 rabbit: > 15,800 mg/kg
Test substance: Similar Product

Skin corrosion/irritation : Species: Rabbit
Exposure time: 24 hrs
Result: 0.3
Method: Draize Test
Test substance: Similar Product

Serious eye damage/eye irritation : Species: rabbit
Exposure time: 24 hrs
Result: 3.7
Method: Draize Test
Test substance: Similar Product

Respiratory or skin sensitization : no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects : This product has no known ecotoxicological effects.

SAFETY DATA SHEET

PERMATREAT™ PC-191T

Product

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout): > 330 mg/l
Exposure time: 96 hrs
Test substance: Similar Product

LC50 Cyprinodon variegatus (sheepshead minnow): 8,132 mg/l
Exposure time: 96 hrs
Test substance: Similar Product

LC50 Lepomis macrochirus (Bluegill sunfish): > 330 mg/l
Exposure time: 96 hrs
Test substance: Similar Product

LC50 Ictalurus punctatus (channel catfish): 1,212 mg/l
Exposure time: 96 hrs
Test substance: Similar Product

LC50 Oncorhynchus mykiss (rainbow trout): 4,530 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

NOEC Oncorhynchus mykiss (rainbow trout): 3,600 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

LC50 Inland Silverside: > 10,000 mg/l
Exposure time: 96 h
Test substance: Product

NOEC Inland Silverside: 10,000 mg/l
Exposure time: 96 h
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates : LC50 Grass Shrimp: 4,575 mg/l
Exposure time: 96 hrs
Test substance: Similar Product

LC50 Daphnia magna (Water flea): 1,673 mg/l
Exposure time: 48 hrs
Test substance: Product
Test Type: Static

EC50 Daphnia magna (Water flea): 297 mg/l
Exposure time: 48 hrs
Test substance: Similar Product

NOEC Daphnia magna (Water flea): 1,296 mg/l
Exposure time: 48 hrs
Test substance: Product
Test Type: Static

SAFETY DATA SHEET

PERMATREAT™ PC-191T

LC50 Mysid Shrimp (*Mysidopsis bahia*): 8,263 mg/l
Exposure time: 96 h
Test substance: Product

NOEC Mysid Shrimp (*Mysidopsis bahia*): 6,000 mg/l
Exposure time: 96 h
Test substance: Product

Toxicity to algae : LC50 Green Algae (*Pseudokirchneriella subcapitata*,
previously *Selenastrum capricornutum*): 20 mg/l
Exposure time: 96 hrs
Test substance: Similar Product

Toxicity to fish (Chronic toxicity) : LOEC: 47.6 mg/l
Exposure time: 60 Days
Species: *Oncorhynchus mykiss* (rainbow trout)
Test substance: Similar Product

NOEC: 23 mg/l
Exposure time: 60 Days
Species: *Oncorhynchus mykiss* (rainbow trout)
Test substance: Similar Product

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : LOEC: 50 mg/l
Exposure time: 28 Days
Species: *Daphnia magna*
Test substance: Similar Product
Test Type: 3 Brood

NOEC: 25 mg/l
Exposure time: 28 Days
Species: *Daphnia magna*
Test substance: Similar Product
Test Type: 3 Brood

Toxicity to terrestrial organisms : LC50 Bobwhite Quail: > 2,510 mg/kg
Exposure time: 14 Days
Test substance: Similar Product

LC50 Mallard Duck: > 2,510 mg/kg
Exposure time: 14 Days
Test substance: Similar Product

Persistence and degradability

Total Organic Carbon (TOC) : 65,000 mg/l

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

SAFETY DATA SHEET

PERMATREAT™ PC-191T

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	: <5%
Water	: 30 - 50%
Soil	: 50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

no data available

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

SAFETY DATA SHEET

PERMATREAT™ PC-191T

CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory

On or in compliance with the active portion of the TSCA inventory

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)

All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

China Inventory of Existing Chemical Substances

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

Taiwan Chemical Substance Inventory

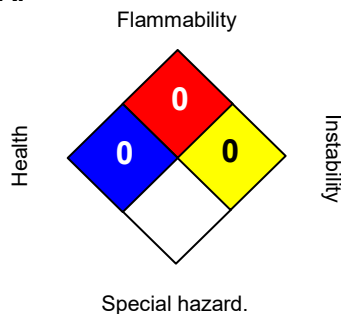
All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

SAFETY DATA SHEET

PERMATREAT™ PC-191T

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 10/07/2021
Version Number : 1.3
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For additional copies of an SDS visit www.nalco.com and request access.

SAFETY DATA SHEET

SCALE-GUARD™ PLUS 60123

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SCALE-GUARD™ PLUS 60123

Other means of identification : Not applicable.

Recommended use : SCALE INHIBITOR

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company
1601 W. Diehl Road
Naperville, Illinois 60563-1198
USA
TEL: (630) 305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 09/21/2023

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Specific measures: consult SDS Section 4.
Storage:
Store in accordance with local regulations.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

No hazardous ingredients

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms occur.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

SAFETY DATA SHEET

SCALE-GUARD™ PLUS 60123

- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during firefighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : For personal protection see section 8. Wash hands after handling.
- Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.

SAFETY DATA SHEET

SCALE-GUARD™ PLUS 60123

- Suitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Stainless Steel 304, Stainless Steel 316L, Polyethylene (rigid), Polypropylene (rigid), PVC, Polyurethane, 100% phenolic resin liner, HDPE (high density polyethylene), Epoxy phenolic resin
- Unsuitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Brass, Neoprene, EPDM, Fluoroelastomer, Chlorosulfonated polyethylene rubber, Shipping and long term storage compatibility with construction materials can vary; we therefore recommend that compatibility is tested prior to use.

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

- Eye protection : Safety glasses
- Hand protection : Wear protective gloves.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : Wear suitable protective clothing.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Viscous liquid
- Colour : clear yellow to dark opaque amber
- Odour : Acidic
- Flash point : Not applicable.
- pH : 4.5, (25 °C)
- Odour Threshold : no data available
- Melting point/freezing point : < -5 °C
- Initial boiling point and boiling range : no data available
- Evaporation rate : no data available

SAFETY DATA SHEET

SCALE-GUARD™ PLUS 60123

Flammability (solid, gas)	: Not applicable.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: no data available
Density	: 1.3285 - 1.3435 g/cm ³
Water solubility	: completely soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: 200 - 600 mPa.s (22.2 °C)
Viscosity, kinematic	: no data available
Molecular weight	: no data available
VOC	: no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NO _x) Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation, Eye contact, Skin contact
--	---

Potential Health Effects

Eyes	: Health injuries are not known or expected under normal use.
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SAFETY DATA SHEET

SCALE-GUARD™ PLUS 60123

Skin : Health injuries are not known or expected under normal use.
Ingestion : Health injuries are not known or expected under normal use.
Inhalation : Health injuries are not known or expected under normal use.
Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : No symptoms known or expected.
Skin contact : No symptoms known or expected.
Ingestion : No symptoms known or expected.
Inhalation : No symptoms known or expected.

Toxicity

Product

Acute oral toxicity : no data available
Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available
Serious eye damage/eye irritation : no data available
Respiratory or skin sensitization : no data available
Carcinogenicity : no data available
Reproductive effects : no data available
Germ cell mutagenicity : Not mutagenic in Ames Test Only TA100 strain tested.
Teratogenicity : no data available
STOT - single exposure : no data available
STOT - repeated exposure : no data available
Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout): 1,685 mg/l
Exposure time: 96 hrs
Test substance: Product

SAFETY DATA SHEET

SCALE-GUARD™ PLUS 60123

NOEC Oncorhynchus mykiss (rainbow trout): 625 mg/l
Exposure time: 96 hrs
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates : LC50 Daphnia magna (Water flea): 688 mg/l
Exposure time: 48 hrs
Test substance: Product

NOEC Daphnia magna (Water flea): 500 mg/l
Exposure time: 48 hrs
Test substance: Product

Toxicity to bacteria : NOEC Bacteria: 80 mg/l
Exposure time: 24 h
Test substance: Product
Test Type: Growth inhibition

Persistence and degradability

Biodegradability : Result: no data available

The organic portion of this preparation is expected to be poorly biodegradable.

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air : <5%
Water : 10 - 30%
Soil : 70 - 90%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations
Dispose of wastes in an approved waste disposal facility.

SAFETY DATA SHEET

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Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory

On the inventory, or in compliance with the inventory.

SAFETY DATA SHEET

SCALE-GUARD™ PLUS 60123

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)

On the Korea Existing Chemicals Inventory.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

China Inventory of Existing Chemical Substances

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

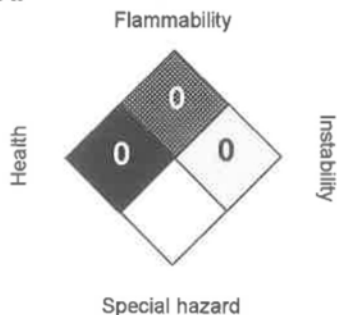
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

Taiwan Chemical Substance Inventory

not determined

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 09/21/2023
Version Number : 1.5
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

SAFETY DATA SHEET

SCALE-GUARD™ PLUS 60123

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For additional copies of an SDS visit www.ecolab.com/sds and request access.

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

Version 1.7

Revision Date: 03/25/2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SODIUM HYPOCHLORITE 10-16%

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.

Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)

Emergency telephone number:
Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion : Category 1A

Serious eye damage : Category 1

Corrosive to metals : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H290 May be corrosive to metals.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with

Safety Data Sheet**SODIUM HYPOCHLORITE 10-16%**

Version 1.7

Revision Date: 03/25/2020

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
7681-52-9	Sodium hypochlorite	10 - 20
1310-73-2	Sodium hydroxide	0 - 5

Any Concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

Version 1.7

Revision Date: 03/25/2020

Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---|---|
| Suitable extinguishing media | : Use an extinguishing media appropriate for surrounding fire. |
| Unsuitable extinguishing media | : High volume water jet |
| | High volume water jet |
| Specific hazards during fire-fighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : Chlorine compounds |
| Specific extinguishing methods | : Use water spray to cool unopened containers. |
| Further information | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment. |
| Environmental precautions | : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, |

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

Version 1.7

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acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
7681-52-9	Sodium hypochlorite	STEL	2 mg/m ³	US WEEL
1310-73-2	Sodium hydroxide	C	2 mg/m ³	ACGIH
		C	2 mg/m ³	NIOSH REL
		TWA	2 mg/m ³	OSHA Z-1
		C	2 mg/m ³	OSHA P0

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

Version 1.7

Revision Date: 03/25/2020

problems.

- | | | |
|--------------------------|---|---|
| Skin and body protection | : | Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures | : | When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | |
|---|---|--|
| Appearance | : | liquid |
| Colour | : | clear, yellow, green |
| Odour | : | Chlorine |
| Odour Threshold | : | No data available |
| pH | : | 11.5 - 13 @ 25 °C (77 °F) |
| Freezing Point (Melting point/freezing point) | : | -20 - -15 °C (-4 - 5 °F) |
| Boiling Point (Boiling point/boiling range) | : | > 40 °C (> 104 °F)
Decomposition |
| Flash point | : | Not applicable |
| Evaporation rate | : | < 1
(Butyl Acetate = 1) |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Vapour pressure | : | 12.1 mmHg @ 20 °C (68 °F) |
| Relative vapour density | : | No data available |
| Relative density | : | 1.17 @ 20 °C (68 °F)
Reference substance: (water = 1) |
| Density | : | No data available |
| Solubility(ies)
Water solubility | : | completely soluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n- | : | No data available |

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

Version 1.7

Revision Date: 03/25/2020

octanol/water

Auto-ignition temperature : No data available

Thermal decomposition : > 40 °C

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Risk of violent reaction.

No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Reacts with organic materials and may cause ignition of finely divided materials on contact.
Exothermic reaction with strong acids.

No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Exposure to light.
Exposure to sunlight.
Exposure to moisture
Heat

No data available

Incompatible materials : Organic materials
Strong acids
Strong oxidizing agents
Ammonia
Metals
Amines
Ethyleneimine
nitrogen
Reducing agents
Acids
Combustible material
Halogenated compounds
Metals
metal salts
Organic materials
organic nitro compounds
Zinc

Hazardous decomposition products : Chlorine
hydrogen chloride
Oxygen

Safety Data Sheet**SODIUM HYPOCHLORITE 10-16%**

Version 1.7

Revision Date: 03/25/2020

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Skin corrosion/irritation**Product:**

Result: Causes severe burns.

Remarks: Extremely corrosive and destructive to tissue.

Components:**7681-52-9:**

Species: Rabbit

Result: Causes burns.

1310-73-2:

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation**Product:**

Remarks: Risk of serious damage to eyes.

Remarks: May cause irreversible eye damage.

Components:**7681-52-9:**

Species: Rabbit

Result: Risk of serious damage to eyes.

1310-73-2:

Species: Rabbit

Result: Risk of serious damage to eyes.

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

Version 1.7

Revision Date: 03/25/2020

by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

STOT - single exposure

Components:

7681-52-9:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

7681-52-9:

Toxicity to fish	: LC50 (Salmo gairdneri (Rainbow Fish)): 0.06 mg/l
	Exposure time: 96 h
	Test Type: flow-through test
	LC50 (Pimephales promelas (fathead minnow)): 5.9 mg/l
	Exposure time: 96 h
	Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.141 mg/l
	Exposure time: 48 h
	Test Type: flow-through test
	EC50 (Ceriodaphnia dubia): 0.035 mg/l
	Exposure time: 48 h
	Test Type: flow-through test
Toxicity to algae	: IC50: 0.023 mg/l
	Exposure time: 7 d
	Test Type: flow-through test
M-Factor (Acute aquatic toxicity)	: 10
Acute aquatic toxicity- Assessment	: Very toxic to aquatic life.
Chronic aquatic toxicity- Assessment	: Toxic to aquatic life with long lasting effects.

Safety Data Sheet**SODIUM HYPOCHLORITE 10-16%**

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essment

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897

The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**DOT (Department of Transportation):**

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

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UN1791, Hypochlorite solutions, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

IATA (International Air Transport Association):

UN1791, Hypochlorite solution, 8, III

IMDG (International Maritime Dangerous Goods):

UN1791, HYPOCHLORITE SOLUTION, 8, III, Marine Pollutant (SODIUM HYPOCHLORITE)

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : E: Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hypochlorite	7681-52-9	100	500
Sodium hydroxide	1310-73-2	1000	20000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

7681-52-9 Sodium hypochlorite
1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

7681-52-9 Sodium hypochlorite
1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

7681-52-9 Sodium hypochlorite 10 - 20 %

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

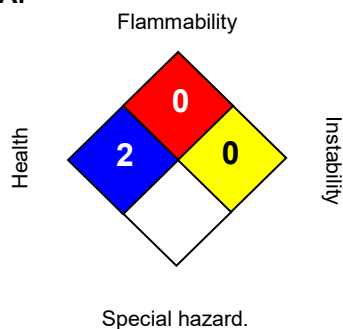
Version 1.7

Revision Date: 03/25/2020

1310-73-2	Sodium hydroxide	5 - 10 %
Pennsylvania Right To Know		
7732-18-5	Water	90 - 100 %
7681-52-9	Sodium hypochlorite	10 - 20 %
1310-73-2	Sodium hydroxide	5 - 10 %
New Jersey Right To Know		
7732-18-5	Water	90 - 100 %
7681-52-9	Sodium hypochlorite	10 - 20 %
1310-73-2	Sodium hydroxide	5 - 10 %
California Prop 65	: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other re-productive harm.	
The components of this product are reported in the following inventories:		
TSCA	: On TSCA Inventory	
DSL	: All components of this product are on the Canadian DSL	
AICS	: On the inventory, or in compliance with the inventory	
NZIoC	: On the inventory, or in compliance with the inventory	
ENCS	: Not in compliance with the inventory	
KECI	: On the inventory, or in compliance with the inventory	
PICCS	: On the inventory, or in compliance with the inventory	
IECSC	: On the inventory, or in compliance with the inventory	

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

Version 1.7

Revision Date: 03/25/2020

to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 03/25/2020

Legacy SDS: : R0004191

Material number:

16147687, 16144215, 16149245, 16150496, 16149504, 16145673, 16149243, 16136536, 16153596, 16156860, 16160599, 16160181, 16160290, 16147990, 16144046, 16145139, 16150462, 16149046, 16149516, 16148083, 16150461, 16135782, 16153735, 16135216, 16156005, 16151878, 16151769, 16151501, 16150223, 16149931, 16148522, 16148259, 16147092, 16145877, 16145876, 16141599, 16159170, 16147803, 16145874, 16142035, 16142469, 16141380, 16141858, 16141659, 16142556, 16140878, 16145134, 16145135, 16145136, 16141638, 16141449, 16141478, 16141742, 16140329, 16141509, 16141320, 16140572, 16140126, 16141988, 16140615, 16142137, 16142142, 16140640, 16142217, 16141980, 16140150, 16140525, 16141377, 16140611, 16141909, 16140514, 16142456, 16142437, 16141616, 16140660, 16140421, 16140436, 16142341, 16112157, 16099190, 746448, 653645, 16023856, 16023855, 560182, 161166, 146774, 132681, 167734, 20464, 20461, 573786, 554377, 160127, 160809, 115370, 98722, 674528, 116864, 501223

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit

Safety Data Sheet

SODIUM HYPOCHLORITE 10-16%

Version 1.7

Revision Date: 03/25/2020

IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		



January 24, 2025

Alicia Barnes
Essity Professional Hygiene NA LLC - US
1834 Haley Drive
Cherokee, AL 35616

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
FF00086-01	DSN0011	01/08/2025	01/08/2025
FF00086-02	DSN0011	01/08/2025	01/08/2025

Southern Environmental Testing is accredited to ISO/IEC 17025:2017 by the ANSI National Accreditation Board (ANAB) and certified by the Alabama Department of Environmental Management (ADEM) for specific tests. Our quality system meets the relevant quality system requirements of ISO 9001:2015. Not all tests performed by Southern Environmental Testing are covered by accreditation and certification. Tests within our ANAB scope of accreditation are indicated by a plus symbol (+) in the Test Result section of this report. Tests not included in our accreditation and certification are performed in accordance with Southern Environmental Testing standard operating procedures and our quality control program using, where applicable, US EPA approved methodology.

This cover page and the attached chain-of-custody records 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 us at 256-280-2567.

Reviewed by:

A handwritten signature in black ink that reads "Margaret Aiken". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

Margaret Aiken
Project Manager

2919 Fairgrounds Road SW
Decatur, AL 35603
(256) 280-2567

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

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

SAMPLE RESULTS REPORT
Report Date/Time: 01/24/2025 14:48

REPORT TO
Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616

Southern Environmental Testing maintains ANAB accreditation to ISO/IEC 17025:2017 for testing (certificate AT-3114, AT-3114.01); Enersolv's certificate, AT-2597. Tests within the scope of accreditation and/or certification are denoted by a plus symbol (+).

This report may contain information that is confidential and proprietary. The 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.

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.

Disclaimer: Information provided by the customer can affect the validity of results.

Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN0011

Sample ID: FF00086-01

Collected: 01/08/2025

Submitted: 01/08/2025

Anions by IC

Bromide	<0.500	mg/l
+ Nitrite-Nitrogen	<0.100	mg/l
+ Nitrate-Nitrogen	<0.500	mg/l
+ Nitrate plus Nitrite-Nitrogen	<0.600	mg/l
+ Sulfate	59.3	mg/l

Inorganics

+ Biochemical Oxygen Demand	8.19	mg/l	
+ Chemical Oxygen Demand	82.0	mg/l	
MBAS (Foaming Agents)	<0.0250	mg/l	
+ Ammonia-Nitrogen	0.103	mg/l	
Sulfide	<0.0100	mg/l	
Sulfite	<2.00	mg/l	H
+ Total Kjeldahl Nitrogen	2.67	mg/l	
Total Organic Carbon	17.0	mg/l	
+ Total Organic Nitrogen	2.57	mg/l	
+ Total Suspended Solids	9.00	mg/l	

Metals by ICP-MS

Total Silver	<0.00250	mg/l
+ Total Aluminum	0.0935	mg/l
+ Total Arsenic	<0.00250	mg/l
+ Total Barium	0.0278	mg/l
+ Total Beryllium	<0.00250	mg/l
+ Total Cadmium	<0.00250	mg/l
+ Total Cobalt	<0.00250	mg/l
+ Total Chromium	<0.00250	mg/l
+ Total Copper	<0.00250	mg/l

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Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN0011

Sample ID: FF00086-01

Collected: 01/08/2025

Submitted: 01/08/2025

Metals by ICP-MS (Continued)

+ Total Manganese	0.00637	mg/l
+ Total Molybdenum	0.00760	mg/l
+ Total Nickel	<0.00250	mg/l
+ Total Lead	<0.00250	mg/l
+ Total Antimony	<0.00250	mg/l
+ Total Selenium	<0.00250	mg/l
Total Tin	<0.00500	mg/l
Total Titanium	0.00271	mg/l
+ Total Thallium	<0.00250	mg/l
+ Total Zinc	0.0107	mg/l

Metals by ICP-OES

+ Total Boron	0.647	mg/l
+ Total Iron	<0.0200	mg/l
Total Magnesium	5.60	mg/l

Miscellaneous Metals

+ Total Mercury	<0.000200	mg/l
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Volatiles by EPA 624

+ Benzene	<1.00	ug/l	Q2
+ Bromodichloromethane	<1.00	ug/l	Q2
+ Bromoform	<1.00	ug/l	Q2
+ Bromomethane	<5.00	ug/l	Q2
+ Carbon tetrachloride	<2.00	ug/l	Q2
+ Chlorobenzene	<1.00	ug/l	Q2
+ Chloroethane	<1.00	ug/l	Q2
+ Chloroform	<1.00	ug/l	Q2
+ Chloromethane	<1.00	ug/l	Q2

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Report Date/Time: 01/24/2025 14:48

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Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN0011

Sample ID: FF00086-01

Collected: 01/08/2025

Submitted: 01/08/2025

Volatiles by EPA 624 (Continued)

+ Dibromochloromethane	<1.00	ug/l	Q2
+ 1,1-Dichloroethane	<1.00	ug/l	Q2
+ 1,2-Dichloroethane	<1.00	ug/l	Q2
+ trans-1,2-Dichloroethylene	<1.00	ug/l	Q2
+ 1,2-Dichloropropane	<1.00	ug/l	Q2
+ cis-1,3-Dichloropropylene	<1.00	ug/l	Q2
+ Ethyl benzene	<1.00	ug/l	Q2
+ Methylene chloride	<5.00	ug/l	Q2
+ 1,1,2,2-Tetrachloroethane	<1.00	ug/l	Q2
+ 1,1,1-Trichloroethane	<1.00	ug/l	Q2
+ 1,1,2-Trichloroethane	<1.00	ug/l	Q2
+ 1,1-Dichloroethylene	<1.00	ug/l	Q2
+ Tetrachloroethylene	<1.00	ug/l	Q2
+ Toluene	<1.00	ug/l	Q2
+ Trichloroethylene	<1.00	ug/l	Q2
+ Vinyl chloride	<1.00	ug/l	Q2
+ 2-Chloroethylvinyl ether	<1.00	ug/l	Q2
+ Acrylonitrile	<1.00	ug/l	Q2
Acrolein	<1.00	ug/l	Q2

Sample Point: DSN0011

Sample ID: FF00086-02

Collected: 01/08/2025

Submitted: 01/08/2025

Anions by IC

+ Fluoride	0.140	mg/l
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Microbiological

Fecal Coliform	181	MPN/100 mL
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Inorganics

SAMPLE RESULTS REPORT
Report Date/Time: 01/24/2025 14:48

REPORT TO
Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616

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Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN0011

Sample ID: FF00086-02

Collected: 01/08/2025

Submitted: 01/08/2025

Inorganics (Continued)

ADMI Color	29.0	
+ Total Cyanide	0.00500	mg/l
+ HEM (Oil and Grease)	<5.00	mg/l
+ Total Phosphorus	<0.0500	mg/l
Phenolics (4AAP)	<0.0200	mg/l

SAMPLE RESULTS REPORT
Report Date/Time: 01/24/2025 14:48

REPORT TO Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616
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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

- H Sample beyond accepted holding time.
- Q One or more quality control criteria (LCS, continuing calibration, etc) failed. Data may be estimated or biased.
- Q2 Sample received with headspace.
- < 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)
FF00086-01	Boron	EPA 200.7 Rev. 4.4/6010C	JBM	Florence	01/08/2025 07:00	01/13/2025 08:30	
FF00086-01	Iron	EPA 200.7 Rev. 4.4/6010C	JBM	Florence	01/08/2025 07:00	01/13/2025 08:30	
FF00086-01	Magnesium	EPA 200.7 Rev. 4.4/6010C	JBM	Florence	01/08/2025 07:00	01/13/2025 08:30	
FF00086-01	Aluminum	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Antimony	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Arsenic	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Barium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Beryllium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Cadmium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Chromium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Cobalt	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Copper	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	

SAMPLE RESULTS REPORT
Report Date/Time: 01/24/2025 14:48

REPORT TO

Alicia Barnes
Essity Professional Hygiene NA LLC - US
1834 Haley Drive
Cherokee, AL 35616

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Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collection Date/Time	Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
FF00086-01	Lead	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Manganese	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Molybdenum	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Nickel	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Selenium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Silver	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Thallium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Tin	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Titanium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Zinc	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 07:00	01/09/2025 13:14	
FF00086-01	Total Mercury	EPA 245.1, Rev. 3.0	WCC	Florence	01/08/2025 07:00	01/09/2025 09:25	
FF00086-01	Bromide	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 07:00	01/09/2025 08:21	
FF00086-01	Nitrate-Nitrogen	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 07:00	01/09/2025 08:21	
FF00086-01	Nitrite-Nitrogen	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 07:00	01/09/2025 08:21	
FF00086-01	Sulfate	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 07:00	01/09/2025 08:21	
FF00086-01	Volatile Organic Analytes	EPA 624.1	AGD	Florence	01/08/2025 07:00	01/13/2025 14:00	
FF00086-01	Ammonia-Nitrogen	FIALab 100	RAC	Decatur	01/08/2025 07:00	01/10/2025 07:00	
FF00086-01	Total Kjeldahl Nitrogen	FIALab 100	RAC	Decatur	01/08/2025 07:00	01/13/2025 05:00	
FF00086-01	Chemical Oxygen Demand	Hach 8000	JBM	Florence	01/08/2025 07:00	01/09/2025 10:00	
FF00086-01	Total Suspended Solids	SM 2540D-2015	JTM	Florence	01/08/2025 07:00	01/09/2025 11:00	

SAMPLE RESULTS REPORT
Report Date/Time: 01/24/2025 14:48

REPORT TO Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616
--

Southern Environmental Testing maintains ANAB accreditation to ISO/IEC 17025:2017 for testing (certificate AT-3114, AT-3114.01); Enersolv's certificate, AT-2597. Tests within the scope of accreditation and/or certification are denoted by a plus symbol (+).

This report may contain information that is confidential and proprietary. The 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.

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.

Disclaimer: Information provided by the customer can affect the validity of results.

Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collection Date/Time	Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
FF00086-01	Sulfide	SM 4500S2D-2011	JBM	Florence	01/08/2025 07:00	01/13/2025 14:00	
FF00086-01	Sulfite	SM 4500-SO3 B-2011	SH	Decatur	01/08/2025 07:00	01/09/2025 13:30	
FF00086-01	Biochemical Oxygen Demand	SM 5210 B-2016	AGD	Florence	01/08/2025 07:00	01/08/2025 14:00	01/13/2025 14:00
FF00086-01	Total Organic Carbon	SM 5310C-2011	LLW	Decatur	01/08/2025 07:00	01/09/2025 20:00	
FF00086-01	MBAS (Foaming Agents)	SM 5540C-2011	JRW	Decatur	01/08/2025 07:00	01/09/2025 08:00	
FF00086-02	Total Cyanide	ASTM D7511-12	SH	Decatur	01/08/2025 07:30	01/09/2025 10:00	
FF00086-02	Fecal Coliform	Colilert 18/SM9223B-04	AGD	Florence	01/08/2025 07:30	01/08/2025 14:05	01/09/2025 08:05
FF00086-02	HEM (Oil and Grease)	EPA 1664A Rev. 1999	JBM	Florence	01/08/2025 07:30	01/15/2025 08:00	
FF00086-02	Fluoride	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 07:30	01/09/2025 08:30	
FF00086-02	Phenolics (4AAP)	EPA 420.1 Rev. 1978	WCC	Florence	01/08/2025 07:30	01/13/2025 07:55	
FF00086-02	ADMI Color	SM 2120-E	SH	Decatur	01/08/2025 07:30	01/09/2025 15:20	
FF00086-02	Total Phosphorus	SM 4500-P E-2011	SH	Decatur	01/08/2025 07:30	01/16/2025 13:10	

ANALYTICAL REPORT

PREPARED FOR

Attn: Allison Dixon
Southern Environmental Testing
3103 Northington Court
Florence, Alabama 35630

Generated 1/16/2025 7:23:20 PM

JOB DESCRIPTION

Essity Professional Hygiene
FF00086

JOB NUMBER

400-269055-1

Eurofins Pensacola

Job Notes

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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 Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
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(850)471-6222

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Case Narrative

Client: Southern Environmental Testing
Project: Essity Professional Hygiene

Job ID: 400-269055-1

Job ID: 400-269055-1

Eurofins Pensacola

Job Narrative 400-269055-1

Receipt

The sample was received on 1/14/2025 9:43 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

GC/MS Semi VOA

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-696626 and analytical batch 400-696755 recovered outside control limits for the following analytes: Benzidine.

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (MB 400-696626/1-A). These results have been reported and qualified.

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

Eurofins Pensacola

Detection Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Client Sample ID: DSN0011

Lab Sample ID: 400-269055-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.016		0.0097		mg/L	1		625.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Method	Method Description	Protocol	Laboratory
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET PEN
625	Liquid-Liquid Extraction	EPA	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269055-1	DSN0011	Water	01/08/25 07:00	01/14/25 09:43

- 1
- 2
- 3
- 4
- 5
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- 11
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- 13
- 14

Client Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Client Sample ID: DSN0011

Lab Sample ID: 400-269055-1

Date Collected: 01/08/25 07:00

Matrix: Water

Date Received: 01/14/25 09:43

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Acenaphthylene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Anthracene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Benzidine	<0.024	*1	0.024		mg/L		01/14/25 11:09	01/15/25 17:18	1
Benzo[a]anthracene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Benzo[a]pyrene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Benzo[b]fluoranthene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Benzo[g,h,i]perylene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Benzo[k]fluoranthene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Bis(2-chloroethoxy)methane	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Bis(2-chloroethyl)ether	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Bis(2-ethylhexyl) phthalate	0.016		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
4-Bromophenyl phenyl ether	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Butyl benzyl phthalate	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
4-Chloro-3-methylphenol	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
2-Chloronaphthalene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
2-Chlorophenol	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
4-Chlorophenyl phenyl ether	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Chrysene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Dibenz(a,h)anthracene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
3,3'-Dichlorobenzidine	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
2,4-Dichlorophenol	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Diethyl phthalate	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
2,4-Dimethylphenol	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Dimethyl phthalate	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Di-n-butyl phthalate	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
4,6-Dinitro-2-methylphenol	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
2,4-Dinitrophenol	<0.029		0.029		mg/L		01/14/25 11:09	01/15/25 17:18	1
2,4-Dinitrotoluene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
2,6-Dinitrotoluene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Di-n-octyl phthalate	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Fluorene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Hexachlorobenzene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Hexachlorobutadiene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Hexachlorocyclopentadiene	<0.019		0.019		mg/L		01/14/25 11:09	01/15/25 17:18	1
Hexachloroethane	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Indeno[1,2,3-cd]pyrene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Isophorone	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Naphthalene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Nitrobenzene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
2-Nitrophenol	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
4-Nitrophenol	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
N-Nitrosodimethylamine	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
N-Nitrosodi-n-propylamine	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
N-Nitrosodiphenylamine	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
bis (2-chloroisopropyl) ether	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Pentachlorophenol	<0.019		0.019		mg/L		01/14/25 11:09	01/15/25 17:18	1
Phenanthrene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1

Eurofins Pensacola

Client Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Client Sample ID: DSN0011

Lab Sample ID: 400-269055-1

Date Collected: 01/08/25 07:00

Matrix: Water

Date Received: 01/14/25 09:43

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Pyrene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
1,2,4-Trichlorobenzene	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
2,4,6-Trichlorophenol	<0.0097		0.0097		mg/L		01/14/25 11:09	01/15/25 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	96		32 - 109				01/14/25 11:09	01/15/25 17:18	1
2-Fluorophenol	44		10 - 104				01/14/25 11:09	01/15/25 17:18	1
Nitrobenzene-d5	72		31 - 111				01/14/25 11:09	01/15/25 17:18	1
Phenol-d5	33		10 - 110				01/14/25 11:09	01/15/25 17:18	1
Terphenyl-d14	122		30 - 129				01/14/25 11:09	01/15/25 17:18	1
2,4,6-Tribromophenol	106		15 - 135				01/14/25 11:09	01/15/25 17:18	1

Definitions/Glossary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control 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 Probable 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

Lab Chronicle

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Client Sample ID: DSN0011
Date Collected: 01/08/25 07:00
Date Received: 01/14/25 09:43

Lab Sample ID: 400-269055-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			257 mL	1 mL	696626	01/14/25 11:09	BKL	EET PEN
Total/NA	Analysis	625.1		1	0.4 mL	0.4 mL	696755	01/15/25 17:18	S1B	EET PEN

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

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QC Association Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

GC/MS Semi VOA

Prep Batch: 696626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269055-1	DSN0011	Total/NA	Water	625	
MB 400-696626/1-A	Method Blank	Total/NA	Water	625	
LCS 400-696626/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 400-696626/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 696755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269055-1	DSN0011	Total/NA	Water	625.1	696626
MB 400-696626/1-A	Method Blank	Total/NA	Water	625.1	696626
LCS 400-696626/2-A	Lab Control Sample	Total/NA	Water	625.1	696626
LCSD 400-696626/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	696626

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-696626/1-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 696626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Acenaphthylene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Anthracene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzidine	<0.025		0.025		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[a]anthracene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[a]pyrene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[b]fluoranthene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[g,h,i]perylene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[k]fluoranthene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Bis(2-chloroethoxy)methane	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Bis(2-chloroethyl)ether	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Bis(2-ethylhexyl) phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4-Bromophenyl phenyl ether	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Butyl benzyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4-Chloro-3-methylphenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2-Chloronaphthalene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2-Chlorophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4-Chlorophenyl phenyl ether	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Chrysene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Dibenz(a,h)anthracene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
3,3'-Dichlorobenzidine	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4-Dichlorophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Diethyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4-Dimethylphenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Dimethyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Di-n-butyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4,6-Dinitro-2-methylphenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4-Dinitrophenol	<0.030		0.030		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4-Dinitrotoluene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,6-Dinitrotoluene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Di-n-octyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Fluorene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Hexachlorobenzene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Hexachlorobutadiene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Hexachlorocyclopentadiene	<0.020		0.020		mg/L		01/14/25 11:09	01/15/25 15:43	1
Hexachloroethane	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Indeno[1,2,3-cd]pyrene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Isophorone	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Naphthalene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Nitrobenzene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2-Nitrophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4-Nitrophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
N-Nitrosodimethylamine	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
N-Nitrosodi-n-propylamine	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
N-Nitrosodiphenylamine	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
bis (2-chloroisopropyl) ether	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Pentachlorophenol	<0.020		0.020		mg/L		01/14/25 11:09	01/15/25 15:43	1

Eurofins Pensacola

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-696626/1-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 696626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Phenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Pyrene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
1,2,4-Trichlorobenzene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4,6-Trichlorophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		32 - 109	01/14/25 11:09	01/15/25 15:43	1
2-Fluorophenol	51		10 - 104	01/14/25 11:09	01/15/25 15:43	1
Nitrobenzene-d5	89		31 - 111	01/14/25 11:09	01/15/25 15:43	1
Phenol-d5	36		10 - 110	01/14/25 11:09	01/15/25 15:43	1
Terphenyl-d14	131	S1+	30 - 129	01/14/25 11:09	01/15/25 15:43	1
2,4,6-Tribromophenol	102		15 - 135	01/14/25 11:09	01/15/25 15:43	1

Lab Sample ID: LCS 400-696626/2-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 696626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.120	0.105		mg/L		87	47 - 145
Acenaphthylene	0.120	0.101		mg/L		84	33 - 145
Anthracene	0.120	0.116		mg/L		96	27 - 133
1,2-Diphenylhydrazine (as Azobenzene)	0.120	0.0954		mg/L		79	23 - 138
Benzidine	0.675	0.0864		mg/L		13	1 - 73
Benzo[a]anthracene	0.120	0.102		mg/L		85	33 - 143
Benzo[a]pyrene	0.120	0.114		mg/L		95	17 - 163
Benzo[b]fluoranthene	0.120	0.111		mg/L		93	24 - 159
Benzo[g,h,i]perylene	0.120	0.108		mg/L		90	1 - 219
Benzo[k]fluoranthene	0.120	0.119		mg/L		99	11 - 162
Bis(2-chloroethoxy)methane	0.120	0.0944		mg/L		79	33 - 184
Bis(2-chloroethyl)ether	0.120	0.0892		mg/L		74	12 - 158
Bis(2-ethylhexyl) phthalate	0.120	0.105		mg/L		87	8 - 158
4-Bromophenyl phenyl ether	0.120	0.121		mg/L		101	53 - 127
Butyl benzyl phthalate	0.120	0.103		mg/L		85	1 - 152
4-Chloro-3-methylphenol	0.120	0.0951		mg/L		79	22 - 147
2-Chloronaphthalene	0.120	0.0980		mg/L		82	24 - 132
2-Chlorophenol	0.120	0.0825		mg/L		69	23 - 134
4-Chlorophenyl phenyl ether	0.120	0.116		mg/L		97	25 - 158
Chrysene	0.120	0.110		mg/L		92	17 - 168
Dibenz(a,h)anthracene	0.120	0.0943		mg/L		79	1 - 227
3,3'-Dichlorobenzidine	0.240	0.297		mg/L		124	1 - 262
2,4-Dichlorophenol	0.120	0.104		mg/L		86	39 - 135
Diethyl phthalate	0.120	0.103		mg/L		86	1 - 120
2,4-Dimethylphenol	0.120	0.0909		mg/L		76	32 - 120
Dimethyl phthalate	0.120	0.104		mg/L		87	1 - 120
Di-n-butyl phthalate	0.120	0.115		mg/L		95	1 - 120
4,6-Dinitro-2-methylphenol	0.240	0.243		mg/L		101	1 - 181
2,4-Dinitrophenol	0.240	0.243		mg/L		101	1 - 191

Eurofins Pensacola

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-696626/2-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 696626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	0.120	0.112		mg/L		93	39 - 139
2,6-Dinitrotoluene	0.120	0.114		mg/L		95	50 - 158
Di-n-octyl phthalate	0.120	0.105		mg/L		88	4 - 146
Fluorene	0.120	0.106		mg/L		88	59 - 121
Hexachlorobenzene	0.120	0.131		mg/L		109	1 - 152
Hexachlorobutadiene	0.120	0.0952		mg/L		79	24 - 120
Hexachlorocyclopentadiene	0.120	0.0955		mg/L		80	10 - 124
Hexachloroethane	0.120	0.0776		mg/L		65	40 - 120
Indeno[1,2,3-cd]pyrene	0.120	0.0923		mg/L		77	1 - 171
Isophorone	0.120	0.0912		mg/L		76	21 - 196
Naphthalene	0.120	0.0905		mg/L		75	21 - 133
Nitrobenzene	0.120	0.0870		mg/L		73	35 - 180
2-Nitrophenol	0.120	0.111		mg/L		93	29 - 182
4-Nitrophenol	0.240	0.0963		mg/L		40	1 - 132
N-Nitrosodimethylamine	0.120	0.0416		mg/L		35	10 - 115
N-Nitrosodi-n-propylamine	0.120	0.0935		mg/L		78	1 - 230
N-Nitrosodiphenylamine	0.119	0.108		mg/L		91	29 - 138
bis (2-chloroisopropyl) ether	0.120	0.0745		mg/L		62	36 - 166
Pentachlorophenol	0.240	0.212		mg/L		88	14 - 176
Phenanthrene	0.120	0.111		mg/L		93	54 - 120
Phenol	0.120	0.0364		mg/L		30	5 - 120
Pyrene	0.120	0.109		mg/L		91	52 - 120
1,2,4-Trichlorobenzene	0.120	0.0938		mg/L		78	44 - 142
2,4,6-Trichlorophenol	0.120	0.106		mg/L		89	37 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	99		32 - 109
2-Fluorophenol	45		10 - 104
Nitrobenzene-d5	89		31 - 111
Phenol-d5	32		10 - 110
Terphenyl-d14	111		30 - 129
2,4,6-Tribromophenol	105		15 - 135

Lab Sample ID: LCSD 400-696626/3-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 696626

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.120	0.109		mg/L		91	47 - 145	4	48
Acenaphthylene	0.120	0.105		mg/L		87	33 - 145	4	74
Anthracene	0.120	0.121		mg/L		101	27 - 133	4	66
1,2-Diphenylhydrazine (as Azobenzene)	0.120	0.0969		mg/L		81	23 - 138	2	40
Benzidine	0.675	0.178	*1	mg/L		26	1 - 73	69	40
Benzo[a]anthracene	0.120	0.106		mg/L		89	33 - 143	4	53
Benzo[a]pyrene	0.120	0.116		mg/L		97	17 - 163	2	72
Benzo[b]fluoranthene	0.120	0.118		mg/L		98	24 - 159	6	71
Benzo[g,h,i]perylene	0.120	0.108		mg/L		90	1 - 219	0	97
Benzo[k]fluoranthene	0.120	0.124		mg/L		103	11 - 162	4	63

Eurofins Pensacola

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-696626/3-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 696626

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	0.120	0.0977		mg/L		81	33 - 184	3	54
Bis(2-chloroethyl)ether	0.120	0.0899		mg/L		75	12 - 158	1	108
Bis(2-ethylhexyl) phthalate	0.120	0.112		mg/L		93	8 - 158	7	82
4-Bromophenyl phenyl ether	0.120	0.124		mg/L		103	53 - 127	2	43
Butyl benzyl phthalate	0.120	0.109		mg/L		91	1 - 152	7	60
4-Chloro-3-methylphenol	0.120	0.100		mg/L		83	22 - 147	5	73
2-Chloronaphthalene	0.120	0.100		mg/L		84	24 - 132	2	24
2-Chlorophenol	0.120	0.0864		mg/L		72	23 - 134	5	61
4-Chlorophenyl phenyl ether	0.120	0.121		mg/L		101	25 - 158	4	61
Chrysene	0.120	0.115		mg/L		96	17 - 168	4	87
Dibenz(a,h)anthracene	0.120	0.0933		mg/L		78	1 - 227	1	126
3,3'-Dichlorobenzidine	0.240	0.291		mg/L		121	1 - 262	2	108
2,4-Dichlorophenol	0.120	0.107		mg/L		89	39 - 135	3	50
Diethyl phthalate	0.120	0.108		mg/L		90	1 - 120	5	100
2,4-Dimethylphenol	0.120	0.0931		mg/L		78	32 - 120	2	58
Dimethyl phthalate	0.120	0.108		mg/L		90	1 - 120	3	183
Di-n-butyl phthalate	0.120	0.120		mg/L		100	1 - 120	5	47
4,6-Dinitro-2-methylphenol	0.240	0.254		mg/L		106	1 - 181	4	203
2,4-Dinitrophenol	0.240	0.268		mg/L		112	1 - 191	10	132
2,4-Dinitrotoluene	0.120	0.119		mg/L		99	39 - 139	7	42
2,6-Dinitrotoluene	0.120	0.117		mg/L		97	50 - 158	3	48
Di-n-octyl phthalate	0.120	0.110		mg/L		92	4 - 146	4	69
Fluorene	0.120	0.112		mg/L		94	59 - 121	6	38
Hexachlorobenzene	0.120	0.135		mg/L		112	1 - 152	3	55
Hexachlorobutadiene	0.120	0.103		mg/L		86	24 - 120	8	62
Hexachlorocyclopentadiene	0.120	0.101		mg/L		84	10 - 124	6	40
Hexachloroethane	0.120	0.0851		mg/L		71	40 - 120	9	52
Indeno[1,2,3-cd]pyrene	0.120	0.0915		mg/L		76	1 - 171	1	99
Isophorone	0.120	0.0926		mg/L		77	21 - 196	1	40
Naphthalene	0.120	0.0950		mg/L		79	21 - 133	5	65
Nitrobenzene	0.120	0.0883		mg/L		74	35 - 180	2	62
2-Nitrophenol	0.120	0.114		mg/L		95	29 - 182	2	55
4-Nitrophenol	0.240	0.114		mg/L		48	1 - 132	17	131
N-Nitrosodimethylamine	0.120	0.0461		mg/L		38	10 - 115	10	40
N-Nitrosodi-n-propylamine	0.120	0.0959		mg/L		80	1 - 230	3	87
N-Nitrosodiphenylamine	0.119	0.109		mg/L		91	29 - 138	0	40
bis (2-chloroisopropyl) ether	0.120	0.0780		mg/L		65	36 - 166	5	76
Pentachlorophenol	0.240	0.225		mg/L		94	14 - 176	6	86
Phenanthrene	0.120	0.115		mg/L		96	54 - 120	3	39
Phenol	0.120	0.0401		mg/L		33	5 - 120	10	64
Pyrene	0.120	0.117		mg/L		98	52 - 120	7	49
1,2,4-Trichlorobenzene	0.120	0.0993		mg/L		83	44 - 142	6	50
2,4,6-Trichlorophenol	0.120	0.109		mg/L		91	37 - 144	2	58

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	102		32 - 109
2-Fluorophenol	49		10 - 104
Nitrobenzene-d5	91		31 - 111

Eurofins Pensacola

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-696626/3-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 696626

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Phenol-d5	36		10 - 110
Terphenyl-d14	118		30 - 129
2,4,6-Tribromophenol	114		15 - 135

Client Information Client Contact: Allison Dixon Phone: (850) 474-1001 Fax: (850) 474-2071		Lab P.M. Whitmore, Cheyenne R 400-269055 COC		anier Tracking No(s): 400-95882-34721.1											
Company: Southern Environmental Testing Address: 3103 Northington Ct City: Florence State, Zip: AL, 35630 Phone: 256-280-2569 Email: adixon@setesting.com Project		Sampler: A. Dixon Phone: 256-740-5532		Page: Page 1 of 1 Job #:											
Due Date Requested: TAT Requested (days): STANDARD PO #: Purchase Order not required WO #: Project #: SSOW#:		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)											
Sample Identification DSN0011		Sample Date 1/8/25		Sample Type (C=comp, G=grab) C		Matrix (W=water, S=solid, O=soil, BT=tissue, A=air) W		Field Filtered Sample (Yes or No) X		SV 625 (permit renewal list) X		Total Number of containers 1		Special Instructions/Note: FF00086-01	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months		Special Instructions/QC Requirements:		Empty Kit Relinquished by: Relinquished by: <i>Allison Dixon</i> Relinquished by: Relinquished by:		Date: 1/9/25 1201 Date/Time:		Method of Shipment		Company SET-Florence Company Company	
Custody Seals Intact: A Yes A No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.8C 1/4/25 9:43		Received by: Received by: Received by:		Date/Time: Date/Time: Date/Time:		Company Company Company					

Login Sample Receipt Checklist

Client: Southern Environmental Testing

Job Number: 400-269055-1

SDG Number: FF00086

Login Number: 269055

List Number: 1

Creator: Whitmire, Cheyenne R

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269055-1
SDG: FF00086

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	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
2919 FAIRGROUNDS ROAD SW, DECATUR AL 35603
3103 NORTHINGTON COURT, FLORENCE, AL 35630

(256) 350-0846 www.setesting.com

PAGE 1 of 1
DNS0011
PERMIT RENEWAL

COMPANY/CLIENT NAME		CLIENT P.O. NUMBER		PROJECT NUMBER		REQUESTED ANALYSES																															
Essity Professional Hygiene				AL0074667																																	
CLIENT POINT OF CONTACT		CLIENT PHYSICAL ADDRESS		CITY/STATE/ZIP																																	
Alicia Barnes		1834 Haley Dr		Cherokee, AL 35616																																	
CLIENT EMAIL		PHONE NUMBER		OTHER INFORMATION																																	
alicia.barnes1@essity.com		256-815-8619		PERMIT RENEWAL																																	
SAMPLE COLLECTED BY		EXPEDITED REPORT DELIVERY (SURCHARGE)		DATE DUE (REQUIRED)																																	
Nigel Russ																																					
SET		SAMPLE DESCRIPTION		SAMPLE TRANSFER/G RAB DATE		SAMPLE TRANSFER/GRA B TIME		GRAB COMP		BOD, TSS, BR, SO4, SO3		COD, TON, N/N, Sulfide		TOC, MBAS		Sb, As, Be, Cd, Cr		Cu, Pb, Hg, Ni, Se		Ag, Ti, Zn, Al		Ba, B, Co, Fe, Mg, Mo		Mn, Sn, Ti,		VOA 624 (see list)		SV 625 (see list)		TRC, COLLECT SET		ADMI, FC, FL		CN, Phenolics		OG, P-ICP	
LAB NUMBER		DSN0011		1/8/25		0700		X		X		X		X		X		X		X		X		X		X		X		X		X		X			
-02		DSN0011		1/8/25		0730		X																													
Comments: pH, temp & flow by client. Flow 6.840 MGD																																					
MATRIX																																					
☒ Water ☐ Solid ☐ Sludge																																					
COMPOSITE																																					
FIELD INFORMATION																																					
SAMPLER INFO																																					
SM 4500H+B																																					
SM 4500-CI G (2011)																																					
SM 4500-O G																																					
SM 2550B																																					
QTY																																					
Type - Cool f/c																																					
pH																																					
Parameters																																					
BOD, TSS, MBAS, N/N, SO3, SO4, BR																																					
COD, TON																																					
Metals-ICP, Ti (Decatur)																																					
VOA 624 (SEE LIST)																																					
SV 625 (SEE LIST)																																					
TOC																																					
Sulfide																																					
FC																																					
OG																																					
CN																																					
ADMI, FL,																																					
P-ICP																																					
Phenolics																																					
RELINQUISHED BY: (SIGNATURE)																																					
DATE																																					
TIME																																					
RECEIVED BY: (SIGNATURE)																																					
DATE																																					
TIME																																					
RECEIVED FOR LABORATORY USE BY: (SIGNATURE)																																					
DATE																																					
TIME																																					
SAMPLE TEMPERATURE RECEIVED @ 5.6																																					



January 24, 2025

Alicia Barnes
Essity Professional Hygiene NA LLC - US
1834 Haley Drive
Cherokee, AL 35616

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
FF00085-01	DSN02A1	01/08/2025	01/08/2025

Southern Environmental Testing is accredited to ISO/IEC 17025:2017 by the ANSI National Accreditation Board (ANAB) and certified by the Alabama Department of Environmental Management (ADEM) for specific tests. Our quality system meets the relevant quality system requirements of ISO 9001:2015. Not all tests performed by Southern Environmental Testing are covered by accreditation and certification. Tests within our ANAB scope of accreditation are indicated by a plus symbol (+) in the Test Result section of this report. Tests not included in our accreditation and certification are performed in accordance with Southern Environmental Testing standard operating procedures and our quality control program using, where applicable, US EPA approved methodology.

This cover page and the attached chain-of-custody records 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 us at 256-280-2567.

Reviewed by:

A handwritten signature in black ink that reads "Margaret Aiken". The signature is fluid and cursive, with the first name and last name clearly distinguishable.

Margaret Aiken
Project Manager

2919 Fairgrounds Road SW
Decatur, AL 35603
(256) 280-2567

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

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

SAMPLE RESULTS REPORT
Report Date/Time: 01/24/2025 14:46

REPORT TO
Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616

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Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN02A1

Sample ID: FF00085-01

Collected: 01/08/2025

Submitted: 01/08/2025

Anions by IC

Bromide	<0.500	mg/l
+ Fluoride	<0.100	mg/l
+ Nitrite-Nitrogen	<0.100	mg/l
+ Nitrate-Nitrogen	<0.500	mg/l
+ Nitrate plus Nitrite-Nitrogen	<0.600	mg/l
+ Sulfate	54.1	mg/l

Microbiological

Fecal Coliform	187	MPN/100 mL
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Inorganics

ADMI Color	13.0	
+ Biochemical Oxygen Demand	8.34	mg/l
+ Total Cyanide	<0.00500	mg/l
+ Chemical Oxygen Demand	<10.0	mg/l
MBAS (Foaming Agents)	<0.0250	mg/l
+ Ammonia-Nitrogen	<0.100	mg/l
+ HEM (Oil and Grease)	<5.00	mg/l
+ Total Phosphorus	<0.0500	mg/l
Phenolics (4AAP)	<0.0200	mg/l
Sulfide	<0.0100	mg/l
Sulfite	<2.00	mg/l H
+ Total Kjeldahl Nitrogen	2.20	mg/l
Total Organic Carbon	4.37	mg/l
+ Total Organic Nitrogen	2.20	mg/l
+ Total Suspended Solids	39.8	mg/l

Metals by ICP-MS

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Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN02A1

Sample ID: FF00085-01

Collected: 01/08/2025

Submitted: 01/08/2025

Metals by ICP-MS (Continued)

Total Silver	<0.00250	mg/l
+ Total Aluminum	1.25	mg/l
+ Total Arsenic	<0.00250	mg/l
+ Total Barium	0.0140	mg/l
+ Total Beryllium	<0.00250	mg/l
+ Total Cadmium	<0.00250	mg/l
+ Total Cobalt	<0.00250	mg/l
+ Total Chromium	<0.00250	mg/l
+ Total Copper	<0.00250	mg/l
+ Total Manganese	0.0301	mg/l
+ Total Molybdenum	<0.00250	mg/l
+ Total Nickel	<0.00250	mg/l
+ Total Lead	<0.00250	mg/l
+ Total Antimony	<0.00250	mg/l
+ Total Selenium	<0.00250	mg/l
Total Tin	<0.00500	mg/l
Total Titanium	0.0367	mg/l
+ Total Thallium	<0.00250	mg/l
+ Total Zinc	0.0271	mg/l

Metals by ICP-OES

+ Total Boron	0.0239	mg/l
+ Total Iron	1.29	mg/l
Total Magnesium	1.06	mg/l

Miscellaneous Metals

+ Total Mercury	<0.000200	mg/l
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Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN02A1

Sample ID: FF00085-01

Collected: 01/08/2025

Submitted: 01/08/2025

Volatiles by EPA 624

+ Benzene	<1.00	ug/l	Q2
+ Bromodichloromethane	<1.00	ug/l	Q2
+ Bromoform	<1.00	ug/l	Q2
+ Bromomethane	<5.00	ug/l	Q2
+ Carbon tetrachloride	<2.00	ug/l	Q2
+ Chlorobenzene	<1.00	ug/l	Q2
+ Chloroethane	<1.00	ug/l	Q2
+ Chloroform	<1.00	ug/l	Q2
+ Chloromethane	<1.00	ug/l	Q2
+ Dibromochloromethane	<1.00	ug/l	Q2
+ 1,2-Dichlorobenzene	<1.00	ug/l	Q2
+ 1,3-Dichlorobenzene	<1.00	ug/l	Q2
+ 1,4-Dichlorobenzene	<1.00	ug/l	Q2
+ 1,1-Dichloroethane	<1.00	ug/l	Q2
+ 1,2-Dichloroethane	<1.00	ug/l	Q2
+ trans-1,2-Dichloroethylene	<1.00	ug/l	Q2
+ 1,2-Dichloropropane	<1.00	ug/l	Q2
+ cis-1,3-Dichloropropylene	<1.00	ug/l	Q2
+ Ethyl benzene	<1.00	ug/l	Q2
+ Methylene chloride	<5.00	ug/l	Q2
+ 1,1,2,2-Tetrachloroethane	<1.00	ug/l	Q2
+ 1,1,1-Trichloroethane	<1.00	ug/l	Q2
+ 1,1,2-Trichloroethane	<1.00	ug/l	Q2
+ 1,1-Dichloroethylene	<1.00	ug/l	Q2
+ Tetrachloroethylene	<1.00	ug/l	Q2
+ Toluene	<1.00	ug/l	Q2
+ Trichloroethylene	<1.00	ug/l	Q2

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Report Date/Time: 01/24/2025 14:46

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Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN02A1

Sample ID: FF00085-01

Collected: 01/08/2025

Submitted: 01/08/2025

Volatiles by EPA 624 (Continued)

+ Vinyl chloride	<1.00	ug/l	Q2
+ 2-Chloroethylvinyl ether	<1.00	ug/l	Q2
+ Acrylonitrile	<1.00	ug/l	Q2
Acrolein	<1.00	ug/l	Q2

SAMPLE RESULTS REPORT
Report Date/Time: 01/24/2025 14:46

REPORT TO Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616
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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

- H Sample beyond accepted holding time.
 Q One or more quality control criteria (LCS, continuing calibration, etc) failed. Data may be estimated or biased.
 Q2 Sample received with headspace.
 < 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)
FF00085-01	Total Cyanide	ASTM D7511-12	SH	Decatur	01/08/2025 06:45	01/09/2025 10:00	
FF00085-01	Fecal Coliform	Colilert 18/SM9223B-04	AGD	Florence	01/08/2025 06:45	01/08/2025 14:05	01/09/2025 08:05
FF00085-01	HEM (Oil and Grease)	EPA 1664A Rev. 1999	JBM	Florence	01/08/2025 06:45	01/15/2025 08:00	
FF00085-01	Boron	EPA 200.7 Rev. 4.4/6010C	JBM	Florence	01/08/2025 06:45	01/13/2025 08:30	
FF00085-01	Iron	EPA 200.7 Rev. 4.4/6010C	JBM	Florence	01/08/2025 06:45	01/13/2025 08:30	
FF00085-01	Magnesium	EPA 200.7 Rev. 4.4/6010C	JBM	Florence	01/08/2025 06:45	01/13/2025 08:30	
FF00085-01	Aluminum	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Antimony	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Arsenic	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Barium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Beryllium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Cadmium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	

SAMPLE RESULTS REPORT
Report Date/Time: 01/24/2025 14:46

REPORT TO Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616
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Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collection Date/Time	Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
FF00085-01	Chromium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Cobalt	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Copper	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Lead	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Manganese	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Molybdenum	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Nickel	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Selenium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Silver	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Thallium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Tin	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Titanium	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Zinc	EPA 200.8 Rev. 5.4/6020A	JKM	Decatur	01/08/2025 06:45	01/09/2025 13:14	
FF00085-01	Total Mercury	EPA 245.1, Rev. 3.0	WCC	Florence	01/08/2025 06:45	01/09/2025 09:25	
FF00085-01	Bromide	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 06:45	01/09/2025 08:12	
FF00085-01	Fluoride	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 06:45	01/09/2025 08:12	
FF00085-01	Nitrate-Nitrogen	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 06:45	01/09/2025 08:12	
FF00085-01	Nitrite-Nitrogen	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 06:45	01/09/2025 08:12	
FF00085-01	Sulfate	EPA 300.0, Rev 2.1	LLW	Decatur	01/08/2025 06:45	01/09/2025 08:12	
FF00085-01	Phenolics (4AAP)	EPA 420.1 Rev. 1978	WCC	Florence	01/08/2025 06:45	01/13/2025 07:55	

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Report Date/Time: 01/24/2025 14:46

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Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collection Date/Time	Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
FF00085-01	Volatile Organic Analytes	EPA 624.1	AGD	Florence	01/08/2025 06:45	01/13/2025 14:00	
FF00085-01	Total Kjeldahl Nitrogen	FIAlab 100	RAC	Decatur	01/08/2025 06:45	01/09/2025 05:00	
FF00085-01	Ammonia-Nitrogen	FIAlab 100	RAC	Decatur	01/08/2025 06:45	01/10/2025 07:00	
FF00085-01	Chemical Oxygen Demand	Hach 8000	JBM	Florence	01/08/2025 06:45	01/09/2025 10:00	
FF00085-01	ADMI Color	SM 2120-E	SH	Decatur	01/08/2025 06:45	01/09/2025 15:20	
FF00085-01	Total Suspended Solids	SM 2540D-2015	JTM	Florence	01/08/2025 06:45	01/09/2025 11:00	
FF00085-01	Total Phosphorus	SM 4500-P E-2011	SH	Decatur	01/08/2025 06:45	01/16/2025 13:10	
FF00085-01	Sulfide	SM 4500S2D-2011	JBM	Florence	01/08/2025 06:45	01/13/2025 14:00	
FF00085-01	Sulfite	SM 4500-SO3 B-2011	SH	Decatur	01/08/2025 06:45	01/09/2025 13:30	
FF00085-01	Biochemical Oxygen Demand	SM 5210 B-2016	AGD	Florence	01/08/2025 06:45	01/08/2025 14:00	01/13/2025 14:00
FF00085-01	Total Organic Carbon	SM 5310C-2011	LLW	Decatur	01/08/2025 06:45	01/09/2025 19:46	
FF00085-01	MBAS (Foaming Agents)	SM 5540C-2011	JRW	Decatur	01/08/2025 06:45	01/09/2025 08:00	

ANALYTICAL REPORT

PREPARED FOR

Attn: Allison Dixon
Southern Environmental Testing
3103 Northington Court
Florence, Alabama 35630

Generated 1/16/2025 7:23:48 PM

JOB DESCRIPTION

Essity Professional Hygiene
FF00085

JOB NUMBER

400-269056-1

Eurofins Pensacola

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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1/16/2025 7:23:48 PM

Authorized for release by
Cheyenne Whitmire, Senior Project Manager
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

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Case Narrative

Client: Southern Environmental Testing
Project: Essity Professional Hygiene

Job ID: 400-269056-1

Job ID: 400-269056-1

Eurofins Pensacola

Job Narrative 400-269056-1

Receipt

The sample was received on 1/14/2025 9:43 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

GC/MS Semi VOA

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-696626 and analytical batch 400-696755 recovered outside control limits for the following analytes: Benzidine.

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (MB 400-696626/1-A). These results have been reported and qualified.

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

Eurofins Pensacola

Detection Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Client Sample ID: DSN02A1 Lab Sample ID: 400-269056-1

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Method	Method Description	Protocol	Laboratory
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET PEN
625	Liquid-Liquid Extraction	EPA	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-269056-1	DSN02A1	Water	01/08/25 06:45	01/14/25 09:43

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Client Sample ID: DSN02A1

Lab Sample ID: 400-269056-1

Date Collected: 01/08/25 06:45

Matrix: Water

Date Received: 01/14/25 09:43

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Acenaphthylene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Anthracene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Benzidine	<0.024	*1	0.024		mg/L		01/14/25 11:09	01/15/25 17:47	1
Benzo[a]anthracene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Benzo[a]pyrene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Benzo[b]fluoranthene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Benzo[g,h,i]perylene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Benzo[k]fluoranthene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Bis(2-chloroethoxy)methane	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Bis(2-chloroethyl)ether	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Bis(2-ethylhexyl) phthalate	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
4-Bromophenyl phenyl ether	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Butyl benzyl phthalate	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
4-Chloro-3-methylphenol	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
2-Chloronaphthalene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
2-Chlorophenol	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
4-Chlorophenyl phenyl ether	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Chrysene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Dibenz(a,h)anthracene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
3,3'-Dichlorobenzidine	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
2,4-Dichlorophenol	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Diethyl phthalate	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
2,4-Dimethylphenol	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Dimethyl phthalate	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Di-n-butyl phthalate	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
4,6-Dinitro-2-methylphenol	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
2,4-Dinitrophenol	<0.029		0.029		mg/L		01/14/25 11:09	01/15/25 17:47	1
2,4-Dinitrotoluene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
2,6-Dinitrotoluene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Di-n-octyl phthalate	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Fluorene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Hexachlorobenzene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Hexachlorobutadiene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Hexachlorocyclopentadiene	<0.019		0.019		mg/L		01/14/25 11:09	01/15/25 17:47	1
Hexachloroethane	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Indeno[1,2,3-cd]pyrene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Isophorone	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Naphthalene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Nitrobenzene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
2-Nitrophenol	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
4-Nitrophenol	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
N-Nitrosodimethylamine	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
N-Nitrosodi-n-propylamine	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
N-Nitrosodiphenylamine	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
bis (2-chloroisopropyl) ether	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Pentachlorophenol	<0.019		0.019		mg/L		01/14/25 11:09	01/15/25 17:47	1
Phenanthrene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1

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Client Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Client Sample ID: DSN02A1

Lab Sample ID: 400-269056-1

Date Collected: 01/08/25 06:45

Matrix: Water

Date Received: 01/14/25 09:43

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
Pyrene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
1,2,4-Trichlorobenzene	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1
2,4,6-Trichlorophenol	<0.0096		0.0096		mg/L		01/14/25 11:09	01/15/25 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		32 - 109	01/14/25 11:09	01/15/25 17:47	1
2-Fluorophenol	41		10 - 104	01/14/25 11:09	01/15/25 17:47	1
Nitrobenzene-d5	68		31 - 111	01/14/25 11:09	01/15/25 17:47	1
Phenol-d5	30		10 - 110	01/14/25 11:09	01/15/25 17:47	1
Terphenyl-d14	114		30 - 129	01/14/25 11:09	01/15/25 17:47	1
2,4,6-Tribromophenol	91		15 - 135	01/14/25 11:09	01/15/25 17:47	1

Definitions/Glossary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control 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 Probable 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

Lab Chronicle

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Client Sample ID: DSN02A1
Date Collected: 01/08/25 06:45
Date Received: 01/14/25 09:43

Lab Sample ID: 400-269056-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			260.8 mL	1 mL	696626	01/14/25 11:09	BKL	EET PEN
Total/NA	Analysis	625.1		1	0.4 mL	0.4 mL	696755	01/15/25 17:47	S1B	EET PEN

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

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QC Association Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

GC/MS Semi VOA

Prep Batch: 696626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269056-1	DSN02A1	Total/NA	Water	625	
MB 400-696626/1-A	Method Blank	Total/NA	Water	625	
LCS 400-696626/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 400-696626/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 696755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-269056-1	DSN02A1	Total/NA	Water	625.1	696626
MB 400-696626/1-A	Method Blank	Total/NA	Water	625.1	696626
LCS 400-696626/2-A	Lab Control Sample	Total/NA	Water	625.1	696626
LCSD 400-696626/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	696626

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-696626/1-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 696626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Acenaphthylene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Anthracene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzidine	<0.025		0.025		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[a]anthracene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[a]pyrene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[b]fluoranthene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[g,h,i]perylene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Benzo[k]fluoranthene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Bis(2-chloroethoxy)methane	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Bis(2-chloroethyl)ether	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Bis(2-ethylhexyl) phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4-Bromophenyl phenyl ether	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Butyl benzyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4-Chloro-3-methylphenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2-Chloronaphthalene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2-Chlorophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4-Chlorophenyl phenyl ether	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Chrysene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Dibenz(a,h)anthracene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
3,3'-Dichlorobenzidine	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4-Dichlorophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Diethyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4-Dimethylphenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Dimethyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Di-n-butyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4,6-Dinitro-2-methylphenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4-Dinitrophenol	<0.030		0.030		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4-Dinitrotoluene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,6-Dinitrotoluene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Di-n-octyl phthalate	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Fluorene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Hexachlorobenzene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Hexachlorobutadiene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Hexachlorocyclopentadiene	<0.020		0.020		mg/L		01/14/25 11:09	01/15/25 15:43	1
Hexachloroethane	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Indeno[1,2,3-cd]pyrene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Isophorone	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Naphthalene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Nitrobenzene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2-Nitrophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
4-Nitrophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
N-Nitrosodimethylamine	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
N-Nitrosodi-n-propylamine	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
N-Nitrosodiphenylamine	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
bis (2-chloroisopropyl) ether	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Pentachlorophenol	<0.020		0.020		mg/L		01/14/25 11:09	01/15/25 15:43	1

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QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-696626/1-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 696626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Phenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
Pyrene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
1,2,4-Trichlorobenzene	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1
2,4,6-Trichlorophenol	<0.010		0.010		mg/L		01/14/25 11:09	01/15/25 15:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	103		32 - 109	01/14/25 11:09	01/15/25 15:43	1
2-Fluorophenol	51		10 - 104	01/14/25 11:09	01/15/25 15:43	1
Nitrobenzene-d5	89		31 - 111	01/14/25 11:09	01/15/25 15:43	1
Phenol-d5	36		10 - 110	01/14/25 11:09	01/15/25 15:43	1
Terphenyl-d14	131	S1+	30 - 129	01/14/25 11:09	01/15/25 15:43	1
2,4,6-Tribromophenol	102		15 - 135	01/14/25 11:09	01/15/25 15:43	1

Lab Sample ID: LCS 400-696626/2-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 696626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.120	0.105		mg/L		87	47 - 145
Acenaphthylene	0.120	0.101		mg/L		84	33 - 145
Anthracene	0.120	0.116		mg/L		96	27 - 133
1,2-Diphenylhydrazine (as Azobenzene)	0.120	0.0954		mg/L		79	23 - 138
Benzidine	0.675	0.0864		mg/L		13	1 - 73
Benzo[a]anthracene	0.120	0.102		mg/L		85	33 - 143
Benzo[a]pyrene	0.120	0.114		mg/L		95	17 - 163
Benzo[b]fluoranthene	0.120	0.111		mg/L		93	24 - 159
Benzo[g,h,i]perylene	0.120	0.108		mg/L		90	1 - 219
Benzo[k]fluoranthene	0.120	0.119		mg/L		99	11 - 162
Bis(2-chloroethoxy)methane	0.120	0.0944		mg/L		79	33 - 184
Bis(2-chloroethyl)ether	0.120	0.0892		mg/L		74	12 - 158
Bis(2-ethylhexyl) phthalate	0.120	0.105		mg/L		87	8 - 158
4-Bromophenyl phenyl ether	0.120	0.121		mg/L		101	53 - 127
Butyl benzyl phthalate	0.120	0.103		mg/L		85	1 - 152
4-Chloro-3-methylphenol	0.120	0.0951		mg/L		79	22 - 147
2-Chloronaphthalene	0.120	0.0980		mg/L		82	24 - 132
2-Chlorophenol	0.120	0.0825		mg/L		69	23 - 134
4-Chlorophenyl phenyl ether	0.120	0.116		mg/L		97	25 - 158
Chrysene	0.120	0.110		mg/L		92	17 - 168
Dibenz(a,h)anthracene	0.120	0.0943		mg/L		79	1 - 227
3,3'-Dichlorobenzidine	0.240	0.297		mg/L		124	1 - 262
2,4-Dichlorophenol	0.120	0.104		mg/L		86	39 - 135
Diethyl phthalate	0.120	0.103		mg/L		86	1 - 120
2,4-Dimethylphenol	0.120	0.0909		mg/L		76	32 - 120
Dimethyl phthalate	0.120	0.104		mg/L		87	1 - 120
Di-n-butyl phthalate	0.120	0.115		mg/L		95	1 - 120
4,6-Dinitro-2-methylphenol	0.240	0.243		mg/L		101	1 - 181
2,4-Dinitrophenol	0.240	0.243		mg/L		101	1 - 191

Eurofins Pensacola

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-696626/2-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 696626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	0.120	0.112		mg/L		93	39 - 139
2,6-Dinitrotoluene	0.120	0.114		mg/L		95	50 - 158
Di-n-octyl phthalate	0.120	0.105		mg/L		88	4 - 146
Fluorene	0.120	0.106		mg/L		88	59 - 121
Hexachlorobenzene	0.120	0.131		mg/L		109	1 - 152
Hexachlorobutadiene	0.120	0.0952		mg/L		79	24 - 120
Hexachlorocyclopentadiene	0.120	0.0955		mg/L		80	10 - 124
Hexachloroethane	0.120	0.0776		mg/L		65	40 - 120
Indeno[1,2,3-cd]pyrene	0.120	0.0923		mg/L		77	1 - 171
Isophorone	0.120	0.0912		mg/L		76	21 - 196
Naphthalene	0.120	0.0905		mg/L		75	21 - 133
Nitrobenzene	0.120	0.0870		mg/L		73	35 - 180
2-Nitrophenol	0.120	0.111		mg/L		93	29 - 182
4-Nitrophenol	0.240	0.0963		mg/L		40	1 - 132
N-Nitrosodimethylamine	0.120	0.0416		mg/L		35	10 - 115
N-Nitrosodi-n-propylamine	0.120	0.0935		mg/L		78	1 - 230
N-Nitrosodiphenylamine	0.119	0.108		mg/L		91	29 - 138
bis (2-chloroisopropyl) ether	0.120	0.0745		mg/L		62	36 - 166
Pentachlorophenol	0.240	0.212		mg/L		88	14 - 176
Phenanthrene	0.120	0.111		mg/L		93	54 - 120
Phenol	0.120	0.0364		mg/L		30	5 - 120
Pyrene	0.120	0.109		mg/L		91	52 - 120
1,2,4-Trichlorobenzene	0.120	0.0938		mg/L		78	44 - 142
2,4,6-Trichlorophenol	0.120	0.106		mg/L		89	37 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	99		32 - 109
2-Fluorophenol	45		10 - 104
Nitrobenzene-d5	89		31 - 111
Phenol-d5	32		10 - 110
Terphenyl-d14	111		30 - 129
2,4,6-Tribromophenol	105		15 - 135

Lab Sample ID: LCSD 400-696626/3-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 696626

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.120	0.109		mg/L		91	47 - 145	4	48
Acenaphthylene	0.120	0.105		mg/L		87	33 - 145	4	74
Anthracene	0.120	0.121		mg/L		101	27 - 133	4	66
1,2-Diphenylhydrazine (as Azobenzene)	0.120	0.0969		mg/L		81	23 - 138	2	40
Benzidine	0.675	0.178	*1	mg/L		26	1 - 73	69	40
Benzo[a]anthracene	0.120	0.106		mg/L		89	33 - 143	4	53
Benzo[a]pyrene	0.120	0.116		mg/L		97	17 - 163	2	72
Benzo[b]fluoranthene	0.120	0.118		mg/L		98	24 - 159	6	71
Benzo[g,h,i]perylene	0.120	0.108		mg/L		90	1 - 219	0	97
Benzo[k]fluoranthene	0.120	0.124		mg/L		103	11 - 162	4	63

Eurofins Pensacola

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-696626/3-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 696626

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	0.120	0.0977		mg/L		81	33 - 184	3	54
Bis(2-chloroethyl)ether	0.120	0.0899		mg/L		75	12 - 158	1	108
Bis(2-ethylhexyl) phthalate	0.120	0.112		mg/L		93	8 - 158	7	82
4-Bromophenyl phenyl ether	0.120	0.124		mg/L		103	53 - 127	2	43
Butyl benzyl phthalate	0.120	0.109		mg/L		91	1 - 152	7	60
4-Chloro-3-methylphenol	0.120	0.100		mg/L		83	22 - 147	5	73
2-Chloronaphthalene	0.120	0.100		mg/L		84	24 - 132	2	24
2-Chlorophenol	0.120	0.0864		mg/L		72	23 - 134	5	61
4-Chlorophenyl phenyl ether	0.120	0.121		mg/L		101	25 - 158	4	61
Chrysene	0.120	0.115		mg/L		96	17 - 168	4	87
Dibenz(a,h)anthracene	0.120	0.0933		mg/L		78	1 - 227	1	126
3,3'-Dichlorobenzidine	0.240	0.291		mg/L		121	1 - 262	2	108
2,4-Dichlorophenol	0.120	0.107		mg/L		89	39 - 135	3	50
Diethyl phthalate	0.120	0.108		mg/L		90	1 - 120	5	100
2,4-Dimethylphenol	0.120	0.0931		mg/L		78	32 - 120	2	58
Dimethyl phthalate	0.120	0.108		mg/L		90	1 - 120	3	183
Di-n-butyl phthalate	0.120	0.120		mg/L		100	1 - 120	5	47
4,6-Dinitro-2-methylphenol	0.240	0.254		mg/L		106	1 - 181	4	203
2,4-Dinitrophenol	0.240	0.268		mg/L		112	1 - 191	10	132
2,4-Dinitrotoluene	0.120	0.119		mg/L		99	39 - 139	7	42
2,6-Dinitrotoluene	0.120	0.117		mg/L		97	50 - 158	3	48
Di-n-octyl phthalate	0.120	0.110		mg/L		92	4 - 146	4	69
Fluorene	0.120	0.112		mg/L		94	59 - 121	6	38
Hexachlorobenzene	0.120	0.135		mg/L		112	1 - 152	3	55
Hexachlorobutadiene	0.120	0.103		mg/L		86	24 - 120	8	62
Hexachlorocyclopentadiene	0.120	0.101		mg/L		84	10 - 124	6	40
Hexachloroethane	0.120	0.0851		mg/L		71	40 - 120	9	52
Indeno[1,2,3-cd]pyrene	0.120	0.0915		mg/L		76	1 - 171	1	99
Isophorone	0.120	0.0926		mg/L		77	21 - 196	1	40
Naphthalene	0.120	0.0950		mg/L		79	21 - 133	5	65
Nitrobenzene	0.120	0.0883		mg/L		74	35 - 180	2	62
2-Nitrophenol	0.120	0.114		mg/L		95	29 - 182	2	55
4-Nitrophenol	0.240	0.114		mg/L		48	1 - 132	17	131
N-Nitrosodimethylamine	0.120	0.0461		mg/L		38	10 - 115	10	40
N-Nitrosodi-n-propylamine	0.120	0.0959		mg/L		80	1 - 230	3	87
N-Nitrosodiphenylamine	0.119	0.109		mg/L		91	29 - 138	0	40
bis (2-chloroisopropyl) ether	0.120	0.0780		mg/L		65	36 - 166	5	76
Pentachlorophenol	0.240	0.225		mg/L		94	14 - 176	6	86
Phenanthrene	0.120	0.115		mg/L		96	54 - 120	3	39
Phenol	0.120	0.0401		mg/L		33	5 - 120	10	64
Pyrene	0.120	0.117		mg/L		98	52 - 120	7	49
1,2,4-Trichlorobenzene	0.120	0.0993		mg/L		83	44 - 142	6	50
2,4,6-Trichlorophenol	0.120	0.109		mg/L		91	37 - 144	2	58

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	102		32 - 109
2-Fluorophenol	49		10 - 104
Nitrobenzene-d5	91		31 - 111

Eurofins Pensacola

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-696626/3-A

Matrix: Water

Analysis Batch: 696755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 696626

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Phenol-d5	36		10 - 110
Terphenyl-d14	118		30 - 129
2,4,6-Tribromophenol	114		15 - 135

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Southern Environmental Testing

Job Number: 400-269056-1

SDG Number: FF00085

Login Number: 269056

List Number: 1

Creator: Whitmire, Cheyenne R

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-269056-1
SDG: FF00085

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	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

COMPANY/CLIENT NAME						CLIENT P.O. NUMBER								PROJECT NUMBER																			
Essity Professional Hygiene														AL0074667																			
CLIENT POINT OF CONTACT						CLIENT PHYSICAL ADDRESS								CITY/STATE/ZIP																			
Alicia Barnes						1834 Haley Dr								Cherokee, AL 35616																			
CLIENT EMAIL						PHONE NUMBER								OTHER INFORMATION																			
alicia.barnes1@essity.com						256-815-8619								PERMIT RENEWAL																			
SAMPLE COLLECTED BY						EXPEDITED REPORT DELIVERY (SURCHARGE)																											
Nigel Burr						DATE DUE (REQUIRED)																											
SET LAB NUMBER						SAMPLE DESCRIPTION								SAMPLE TRANSFER/G RAB DATE		SAMPLE TRANSFER/G AB TIME		GRAB COMP															
EPCD085-CI						DSN02A1								11/8/25		0645		X		BOD,TSS,BR,FL COD,TON TOC Sb, As, Be, Cd, Cr Cu, Pb, Hg, Ni, Se Ag, TI, Zn,P-ICP,Al Ba,B,Co,Fe,Mg,Mo Mn,Sn,Ti, VOA 624 (see list) SV 625 (see list) TRC, COLLECT SET ADMI, N/N,SO4,SO3 FC,Phenolics,MBAS OG,CN,Sulfide													
Comments:						pH, temp & flow by client.														Flow N/A							MATRIX						
																				☒ Water ☐ Solid ☐ Sludge													
COMPOSITE SAMPLER INFO						FIELD INFORMATION																											
Start Date		pH mg/l	SM 4500-H+B		SM 4500-Cl G (2011)		SM 4500-O-G		SM 2550B		Qty		Type - Cool bc		pH		Parameters																
Date		mg/l									3 ✓		1-Liter HDPE				BOD,TSS,MBAS,ADM,N,N'S O3,SO4,F.L.BR																
Stop Time		Date			TRC mg/l		DO mg/l		Temp deg C		2 ✓		250ml HDPE H2SO4				COD, TON Metals-TCP, II (Decatur)																
Time		Date			Date		Date		Date		2 ✓		250ml HDPE HNO3				(Decatur)																
Stop Date		Time			Time		Time		Time		2 ✓		1 Liter Glass H2SO4				OG																
Analyst		Analyt			Analyst		Analyst		Analyst		1 ✓		1 Liter Amber Glass H2SO4				Phenolics																
											1 ✓		60mL Amber Glass NaOH				CN																
											1 ✓		120ml Sterile				FC																
											1 ✓		250mL HDPE NaOH+ZnOA				Sulfide																
											3 ✓		40mL Glass Vial HCL				VOA 624 (SEE LIST)																
											4 ✓		40mL Glass Vial H3PO4				TOC																
											2 ✓		1 Liter Amber Glass				SV 625 (SEE LIST)																
RELINQUISHED BY: (SIGNATURE)						DATE		TIME		RELINQUISHED BY: (SIGNATURE)						DATE		TIME															
Nigel Burr						11/8/25		0745																									
RECEIVED BY: (SIGNATURE)						DATE		TIME		RECEIVED BY: (SIGNATURE)						DATE		TIME															
wmp LAB						11/8/25		0745																									
RECEIVED FOR LABORATORY USE BY: (SIGNATURE)						DATE		TIME		RECEIVED BY: (SIGNATURE)						DATE		TIME															
T. Burr						11/8/25		1325		SAMPLE TEMPERATURE RECEIVED @ 5.5																							



February 07, 2025

Alicia Barnes
Essity Professional Hygiene NA LLC - US
1834 Haley Drive
Cherokee, AL 35616

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
FF00198-01	DSN002S	01/27/2025	01/27/2025

Southern Environmental Testing is accredited to ISO/IEC 17025:2017 by the ANSI National Accreditation Board (ANAB) and certified by the Alabama Department of Environmental Management (ADEM) for specific tests. Our quality system meets the relevant quality system requirements of ISO 9001:2015. Not all tests performed by Southern Environmental Testing are covered by accreditation and certification. Tests within our ANAB scope of accreditation are indicated by a plus symbol (+) in the Test Result section of this report. Tests not included in our accreditation and certification are performed in accordance with Southern Environmental Testing standard operating procedures and our quality control program using, where applicable, US EPA approved methodology.

This cover page and the attached chain-of-custody records 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 us at 256-280-2567.

Reviewed by:

A handwritten signature in black ink that reads "Taylor McDonald". The signature is fluid and cursive, with the first name "Taylor" and last name "McDonald" clearly legible.

Taylor McDonald
Assistant Project Manager

2919 Fairgrounds Road SW
Decatur, AL 35603
(256) 280-2567

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

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

SAMPLE RESULTS REPORT
Report Date/Time: 02/07/2025 08:57

REPORT TO
Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616

Southern Environmental Testing maintains ANAB accreditation to ISO/IEC 17025:2017 for testing (certificate AT-3114, AT-3114.01); Enersolv's certificate, AT-2597. Tests within the scope of accreditation and/or certification are denoted by a plus symbol (+).

This report may contain information that is confidential and proprietary. The 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.

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.

Disclaimer: Information provided by the customer can affect the validity of results.

Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN002S

Sample ID: FF00198-01

Collected: 01/27/2025

Submitted: 01/27/2025

Anions by IC

+ Nitrite-Nitrogen	<0.100	mg/l
+ Nitrate-Nitrogen	<0.500	mg/l

Inorganics

+ Biochemical Oxygen Demand	8.26	mg/l
+ Chemical Oxygen Demand	28.0	mg/l
+ Ammonia-Nitrogen	<0.100	mg/l
+ HEM (Oil and Grease)	<5.00	mg/l
+ Total Kjeldahl Nitrogen	1.62	mg/l
+ Total Nitrogen	1.62	mg/l
+ Total Suspended Solids	51.6	mg/l

Metals by ICP-OES

+ Total Phosphorus	1.15	mg/l
--------------------	------	------

SAMPLE RESULTS REPORT
Report Date/Time: 02/07/2025 08:57

REPORT TO Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616
--

Southern Environmental Testing maintains ANAB accreditation to ISO/IEC 17025:2017 for testing (certificate AT-3114, AT-3114.01); Enersolv's certificate, AT-2597. Tests within the scope of accreditation and/or certification are denoted by a plus symbol (+).

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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.

Disclaimer: Information provided by the customer can affect the validity of results.

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

< 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)
FF00198-01	HEM (Oil and Grease)	EPA 1664A Rev. 1999	JBM	Florence	01/27/2025 06:45	01/31/2025 08:30	
FF00198-01	Total Phosphorus	EPA 200.7 Rev. 4.4/6010C	JBM	Florence	01/27/2025 06:45	01/29/2025 07:30	
FF00198-01	Nitrate-Nitrogen	EPA 300.0, Rev 2.1	LLW	Decatur	01/27/2025 06:45	01/28/2025 14:26	
FF00198-01	Nitrite-Nitrogen	EPA 300.0, Rev 2.1	LLW	Decatur	01/27/2025 06:45	01/28/2025 14:26	
FF00198-01	Ammonia-Nitrogen	FIAlab 100	DE	Decatur	01/27/2025 06:45	01/29/2025 07:43	
FF00198-01	Total Kjeldahl Nitrogen	FIAlab 100	RAC	Decatur	01/27/2025 06:45	01/29/2025 05:00	
FF00198-01	Chemical Oxygen Demand	Hach 8000	AGD	Florence	01/27/2025 06:45	01/29/2025 12:27	
FF00198-01	Total Suspended Solids	SM 2540D-2015	GH	Florence	01/27/2025 06:45	01/29/2025 08:00	
FF00198-01	Biochemical Oxygen Demand	SM 5210 B-2016	GH	Florence	01/27/2025 06:45	01/27/2025 13:00	02/01/2025 08:00

ANALYTICAL REPORT

PREPARED FOR

Attn: Taylor Terrell
Southern Environmental Testing
3103 Northington Court
Florence, Alabama 35630

Generated 2/6/2025 8:51:48 PM

JOB DESCRIPTION

Essity Professional Hygiene
FF00198

JOB NUMBER

400-270031-1

Eurofins Pensacola

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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2/6/2025 8:51:48 PM

Authorized for release by
Cheyenne Whitmire, Senior Project Manager
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

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Case Narrative

Client: Southern Environmental Testing
Project: Essity Professional Hygiene

Job ID: 400-270031-1

Job ID: 400-270031-1

Eurofins Pensacola

Job Narrative 400-270031-1

Receipt

The sample was received on 1/29/2025 9:41 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS Semi VOA

Method 625.1: The continuing calibration verification (CCV) associated with batch 400-698479 recovered above the upper control limit for Bis(2-chloroethyl)ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 625.1: The laboratory control sample duplicate (LCSD) for preparation batch 400-698327 and analytical batch 400-698479 recovered outside control limits for the following analytes: Benzidine. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-698327 and analytical batch 400-698479 recovered outside control limits for the following analytes: Benzidine.

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

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Detection Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Client Sample ID: DSN002S

Lab Sample ID: 400-270031-1

No Detections.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Method	Method Description	Protocol	Laboratory
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET PEN
625	Liquid-Liquid Extraction	EPA	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-270031-1	DSN002S	Water	01/27/25 06:45	01/29/25 09:41

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
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Client Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Client Sample ID: DSN002S

Lab Sample ID: 400-270031-1

Date Collected: 01/27/25 06:45

Matrix: Water

Date Received: 01/29/25 09:41

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Acenaphthylene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Anthracene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Benzidine	<0.020	*+ *1	0.020		mg/L		02/03/25 18:05	02/05/25 16:33	1
Benzo[a]anthracene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Benzo[a]pyrene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Benzo[b]fluoranthene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Benzo[g,h,i]perylene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Benzo[k]fluoranthene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Bis(2-chloroethoxy)methane	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Bis(2-chloroethyl)ether	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Bis(2-ethylhexyl) phthalate	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
4-Bromophenyl phenyl ether	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Butyl benzyl phthalate	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
4-Chloro-3-methylphenol	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
2-Chloronaphthalene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
2-Chlorophenol	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
4-Chlorophenyl phenyl ether	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Chrysene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Dibenz(a,h)anthracene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
3,3'-Dichlorobenzidine	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
2,4-Dichlorophenol	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Diethyl phthalate	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
2,4-Dimethylphenol	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Dimethyl phthalate	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Di-n-butyl phthalate	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
4,6-Dinitro-2-methylphenol	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
2,4-Dinitrophenol	<0.024		0.024		mg/L		02/03/25 18:05	02/05/25 16:33	1
2,4-Dinitrotoluene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
2,6-Dinitrotoluene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Di-n-octyl phthalate	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Fluorene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Hexachlorobenzene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Hexachlorobutadiene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		02/03/25 18:05	02/05/25 16:33	1
Hexachloroethane	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Indeno[1,2,3-cd]pyrene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Isophorone	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Naphthalene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Nitrobenzene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
2-Nitrophenol	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
4-Nitrophenol	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
N-Nitrosodimethylamine	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
N-Nitrosodi-n-propylamine	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
N-Nitrosodiphenylamine	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
bis (2-chloroisopropyl) ether	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Pentachlorophenol	<0.016		0.016		mg/L		02/03/25 18:05	02/05/25 16:33	1
Phenanthrene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1

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Client Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Client Sample ID: DSN002S

Lab Sample ID: 400-270031-1

Date Collected: 01/27/25 06:45

Matrix: Water

Date Received: 01/29/25 09:41

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
Pyrene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
1,2,4-Trichlorobenzene	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1
2,4,6-Trichlorophenol	<0.0079		0.0079		mg/L		02/03/25 18:05	02/05/25 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		32 - 109	02/03/25 18:05	02/05/25 16:33	1
2-Fluorophenol	36		10 - 104	02/03/25 18:05	02/05/25 16:33	1
Nitrobenzene-d5	71		31 - 111	02/03/25 18:05	02/05/25 16:33	1
Phenol-d5	29		10 - 110	02/03/25 18:05	02/05/25 16:33	1
Terphenyl-d14	104		30 - 129	02/03/25 18:05	02/05/25 16:33	1
2,4,6-Tribromophenol	93		15 - 135	02/03/25 18:05	02/05/25 16:33	1

Definitions/Glossary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.

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 Probable 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

Lab Chronicle

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Client Sample ID: DSN002S

Date Collected: 01/27/25 06:45

Date Received: 01/29/25 09:41

Lab Sample ID: 400-270031-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			315.4 mL	1 mL	698327	02/03/25 18:05	DPB	EET PEN
Total/NA	Analysis	625.1		1	0.4 mL	0.4 mL	698479	02/05/25 16:33	S1B	EET PEN

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

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QC Association Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

GC/MS Semi VOA

Prep Batch: 698327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270031-1	DSN002S	Total/NA	Water	625	
MB 400-698327/1-A	Method Blank	Total/NA	Water	625	
LCS 400-698327/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 400-698327/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 698479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270031-1	DSN002S	Total/NA	Water	625.1	698327
MB 400-698327/1-A	Method Blank	Total/NA	Water	625.1	698327
LCS 400-698327/2-A	Lab Control Sample	Total/NA	Water	625.1	698327
LCSD 400-698327/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	698327

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-698327/1-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Acenaphthylene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Anthracene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzidine	<0.025		0.025		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[a]anthracene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[a]pyrene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[b]fluoranthene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[g,h,i]perylene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[k]fluoranthene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Bis(2-chloroethoxy)methane	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Bis(2-chloroethyl)ether	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Bis(2-ethylhexyl) phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4-Bromophenyl phenyl ether	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Butyl benzyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4-Chloro-3-methylphenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2-Chloronaphthalene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2-Chlorophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4-Chlorophenyl phenyl ether	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Chrysene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Dibenz(a,h)anthracene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
3,3'-Dichlorobenzidine	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4-Dichlorophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Diethyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4-Dimethylphenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Dimethyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Di-n-butyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4,6-Dinitro-2-methylphenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4-Dinitrophenol	<0.030		0.030		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4-Dinitrotoluene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,6-Dinitrotoluene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Di-n-octyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Fluorene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Hexachlorobenzene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Hexachlorobutadiene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Hexachlorocyclopentadiene	<0.020		0.020		mg/L		02/03/25 18:05	02/05/25 13:08	1
Hexachloroethane	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Indeno[1,2,3-cd]pyrene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Isophorone	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Naphthalene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Nitrobenzene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2-Nitrophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4-Nitrophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
N-Nitrosodimethylamine	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
N-Nitrosodi-n-propylamine	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
N-Nitrosodiphenylamine	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
bis (2-chloroisopropyl) ether	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Pentachlorophenol	<0.020		0.020		mg/L		02/03/25 18:05	02/05/25 13:08	1

Eurofins Pensacola

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-698327/1-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Phenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Pyrene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
1,2,4-Trichlorobenzene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4,6-Trichlorophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		32 - 109	02/03/25 18:05	02/05/25 13:08	1
2-Fluorophenol	40		10 - 104	02/03/25 18:05	02/05/25 13:08	1
Nitrobenzene-d5	69		31 - 111	02/03/25 18:05	02/05/25 13:08	1
Phenol-d5	25		10 - 110	02/03/25 18:05	02/05/25 13:08	1
Terphenyl-d14	99		30 - 129	02/03/25 18:05	02/05/25 13:08	1
2,4,6-Tribromophenol	79		15 - 135	02/03/25 18:05	02/05/25 13:08	1

Lab Sample ID: LCS 400-698327/2-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.120	0.101		mg/L		84	47 - 145
Acenaphthylene	0.120	0.101		mg/L		84	33 - 145
Anthracene	0.120	0.106		mg/L		89	27 - 133
1,2-Diphenylhydrazine (as Azobenzene)	0.120	0.0991		mg/L		83	23 - 138
Benzidine	0.675	0.338		mg/L		50	1 - 73
Benzo[a]anthracene	0.120	0.105		mg/L		88	33 - 143
Benzo[a]pyrene	0.120	0.112		mg/L		93	17 - 163
Benzo[b]fluoranthene	0.120	0.117		mg/L		98	24 - 159
Benzo[g,h,i]perylene	0.120	0.105		mg/L		87	1 - 219
Benzo[k]fluoranthene	0.120	0.109		mg/L		91	11 - 162
Bis(2-chloroethoxy)methane	0.120	0.0864		mg/L		72	33 - 184
Bis(2-chloroethyl)ether	0.120	0.109		mg/L		91	12 - 158
Bis(2-ethylhexyl) phthalate	0.120	0.119		mg/L		99	8 - 158
4-Bromophenyl phenyl ether	0.120	0.103		mg/L		85	53 - 127
Butyl benzyl phthalate	0.120	0.120		mg/L		100	1 - 152
4-Chloro-3-methylphenol	0.120	0.0910		mg/L		76	22 - 147
2-Chloronaphthalene	0.120	0.0953		mg/L		79	24 - 132
2-Chlorophenol	0.120	0.0784		mg/L		65	23 - 134
4-Chlorophenyl phenyl ether	0.120	0.110		mg/L		91	25 - 158
Chrysene	0.120	0.109		mg/L		91	17 - 168
Dibenz(a,h)anthracene	0.120	0.102		mg/L		85	1 - 227
3,3'-Dichlorobenzidine	0.240	0.557	E	mg/L		232	1 - 262
2,4-Dichlorophenol	0.120	0.0874		mg/L		73	39 - 135
Diethyl phthalate	0.120	0.113		mg/L		94	1 - 120
2,4-Dimethylphenol	0.120	0.0754		mg/L		63	32 - 120
Dimethyl phthalate	0.120	0.103		mg/L		86	1 - 120
Di-n-butyl phthalate	0.120	0.118		mg/L		98	1 - 120
4,6-Dinitro-2-methylphenol	0.240	0.249		mg/L		104	1 - 181
2,4-Dinitrophenol	0.240	0.271		mg/L		113	1 - 191

Eurofins Pensacola

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-698327/2-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	0.120	0.109		mg/L		91	39 - 139
2,6-Dinitrotoluene	0.120	0.110		mg/L		92	50 - 158
Di-n-octyl phthalate	0.120	0.118		mg/L		98	4 - 146
Fluorene	0.120	0.107		mg/L		89	59 - 121
Hexachlorobenzene	0.120	0.110		mg/L		91	1 - 152
Hexachlorobutadiene	0.120	0.0759		mg/L		63	24 - 120
Hexachlorocyclopentadiene	0.120	0.0988		mg/L		82	10 - 124
Hexachloroethane	0.120	0.0789		mg/L		66	40 - 120
Indeno[1,2,3-cd]pyrene	0.120	0.0985		mg/L		82	1 - 171
Isophorone	0.120	0.0877		mg/L		73	21 - 196
Naphthalene	0.120	0.0819		mg/L		68	21 - 133
Nitrobenzene	0.120	0.0818		mg/L		68	35 - 180
2-Nitrophenol	0.120	0.0893		mg/L		74	29 - 182
4-Nitrophenol	0.240	0.112		mg/L		47	1 - 132
N-Nitrosodimethylamine	0.120	0.0447		mg/L		37	10 - 115
N-Nitrosodi-n-propylamine	0.120	0.0952		mg/L		79	1 - 230
N-Nitrosodiphenylamine	0.119	0.101		mg/L		85	29 - 138
bis (2-chloroisopropyl) ether	0.120	0.0949		mg/L		79	36 - 166
Pentachlorophenol	0.240	0.195		mg/L		81	14 - 176
Phenanthrene	0.120	0.105		mg/L		87	54 - 120
Phenol	0.120	0.0341		mg/L		28	5 - 120
Pyrene	0.120	0.113		mg/L		95	52 - 120
1,2,4-Trichlorobenzene	0.120	0.0794		mg/L		66	44 - 142
2,4,6-Trichlorophenol	0.120	0.0997		mg/L		83	37 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	72		32 - 109
2-Fluorophenol	36		10 - 104
Nitrobenzene-d5	74		31 - 111
Phenol-d5	30		10 - 110
Terphenyl-d14	102		30 - 129
2,4,6-Tribromophenol	111		15 - 135

Lab Sample ID: LCSD 400-698327/3-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.120	0.105		mg/L		87	47 - 145	4	48
Acenaphthylene	0.120	0.105		mg/L		88	33 - 145	4	74
Anthracene	0.120	0.112		mg/L		93	27 - 133	5	66
1,2-Diphenylhydrazine (as Azobenzene)	0.120	0.107		mg/L		89	23 - 138	8	40
Benzidine	0.675	0.513	*+ *1	mg/L		76	1 - 73	41	40
Benzo[a]anthracene	0.120	0.107		mg/L		89	33 - 143	2	53
Benzo[a]pyrene	0.120	0.114		mg/L		95	17 - 163	2	72
Benzo[b]fluoranthene	0.120	0.121		mg/L		101	24 - 159	4	71
Benzo[g,h,i]perylene	0.120	0.111		mg/L		92	1 - 219	5	97
Benzo[k]fluoranthene	0.120	0.109		mg/L		91	11 - 162	0	63

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QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-698327/3-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	0.120	0.0923		mg/L		77	33 - 184	7	54
Bis(2-chloroethyl)ether	0.120	0.113		mg/L		94	12 - 158	4	108
Bis(2-ethylhexyl) phthalate	0.120	0.121		mg/L		101	8 - 158	2	82
4-Bromophenyl phenyl ether	0.120	0.108		mg/L		90	53 - 127	6	43
Butyl benzyl phthalate	0.120	0.126		mg/L		105	1 - 152	5	60
4-Chloro-3-methylphenol	0.120	0.0941		mg/L		78	22 - 147	3	73
2-Chloronaphthalene	0.120	0.102		mg/L		85	24 - 132	7	24
2-Chlorophenol	0.120	0.0825		mg/L		69	23 - 134	5	61
4-Chlorophenyl phenyl ether	0.120	0.113		mg/L		94	25 - 158	3	61
Chrysene	0.120	0.111		mg/L		93	17 - 168	2	87
Dibenz(a,h)anthracene	0.120	0.108		mg/L		90	1 - 227	6	126
3,3'-Dichlorobenzidine	0.240	0.600	E	mg/L		250	1 - 262	7	108
2,4-Dichlorophenol	0.120	0.0922		mg/L		77	39 - 135	5	50
Diethyl phthalate	0.120	0.115		mg/L		96	1 - 120	2	100
2,4-Dimethylphenol	0.120	0.0791		mg/L		66	32 - 120	5	58
Dimethyl phthalate	0.120	0.107		mg/L		89	1 - 120	4	183
Di-n-butyl phthalate	0.120	0.122		mg/L		101	1 - 120	3	47
4,6-Dinitro-2-methylphenol	0.240	0.263		mg/L		110	1 - 181	6	203
2,4-Dinitrophenol	0.240	0.285		mg/L		119	1 - 191	5	132
2,4-Dinitrotoluene	0.120	0.112		mg/L		93	39 - 139	2	42
2,6-Dinitrotoluene	0.120	0.115		mg/L		96	50 - 158	4	48
Di-n-octyl phthalate	0.120	0.120		mg/L		100	4 - 146	2	69
Fluorene	0.120	0.111		mg/L		92	59 - 121	3	38
Hexachlorobenzene	0.120	0.117		mg/L		98	1 - 152	7	55
Hexachlorobutadiene	0.120	0.0833		mg/L		69	24 - 120	9	62
Hexachlorocyclopentadiene	0.120	0.109		mg/L		91	10 - 124	10	40
Hexachloroethane	0.120	0.0871		mg/L		73	40 - 120	10	52
Indeno[1,2,3-cd]pyrene	0.120	0.105		mg/L		87	1 - 171	6	99
Isophorone	0.120	0.0925		mg/L		77	21 - 196	5	40
Naphthalene	0.120	0.0867		mg/L		72	21 - 133	6	65
Nitrobenzene	0.120	0.0859		mg/L		72	35 - 180	5	62
2-Nitrophenol	0.120	0.0959		mg/L		80	29 - 182	7	55
4-Nitrophenol	0.240	0.105		mg/L		44	1 - 132	7	131
N-Nitrosodimethylamine	0.120	0.0478		mg/L		40	10 - 115	7	40
N-Nitrosodi-n-propylamine	0.120	0.0997		mg/L		83	1 - 230	5	87
N-Nitrosodiphenylamine	0.119	0.106		mg/L		89	29 - 138	6	40
bis (2-chloroisopropyl) ether	0.120	0.101		mg/L		84	36 - 166	6	76
Pentachlorophenol	0.240	0.205		mg/L		86	14 - 176	5	86
Phenanthrene	0.120	0.109		mg/L		91	54 - 120	4	39
Phenol	0.120	0.0357		mg/L		30	5 - 120	5	64
Pyrene	0.120	0.120		mg/L		100	52 - 120	6	49
1,2,4-Trichlorobenzene	0.120	0.0864		mg/L		72	44 - 142	8	50
2,4,6-Trichlorophenol	0.120	0.106		mg/L		88	37 - 144	6	58

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	74		32 - 109
2-Fluorophenol	40		10 - 104
Nitrobenzene-d5	76		31 - 111

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QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-698327/3-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698327

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Phenol-d5	29		10 - 110
Terphenyl-d14	104		30 - 129
2,4,6-Tribromophenol	108		15 - 135

Chain of Custody Record



Client Information		Sampler: A. Dixon		Lab PM: Whitmire, Cheyenne R		COC No: 400-95682-34721.1	
Client Contact: Allison Dixon		Phone: 256-740-5532		E-Mail: Cheyenne.Whitmire@Eurofinset.com		Page: Page 1 of 1	
Company: Southern Environmental Testing		Address: 3103 Northington Ct		City: Florence		State, Zip: AL, 36630	
Phone: 256-280-2569		PO #: Purchase Order not required		WO #:		Project #:	
Email: adixon@setesting.com		Project #:		SSOW#:		Site: Essity Professional Hygiene	
Due Date Requested:		TAT Requested (days): STANDARD		Field Filtered Sample (Yes or No)		SV 625 (permit renewal list)	
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	
Sample Identification		Sample Date		Sample Time		Sample Type	
DSN002S		1/27/25		0645		G W	
Total Number of Containers		X		X		FF00198-01	
Special Instructions/Note:							
Preservation Codes:		A - HCL		M - Hexane		N - None	
		B - NaOH		O - AshNaO2		P - Na2O4S	
		C - Zn Acetate		Q - Na2SO3		R - Na2SO3	
		D - Nitric Acid		S - H2SO4		T - TSP Dodecahydrate	
		E - NaHSO4		U - Acetone		V - MCAA	
		F - MeOH		W - pH 4-5		Z - other (specify)	
		G - Amchlor					
		H - Ascorbic Acid					
		I - Ice					
		J - DI Water					
		K - EDTA					
		L - EDA					
		Other:					
Return To Client		Disposal By Lab		Archive For		Months	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: A. Dixon		1/29/25		1328		Company: SET-Florence	
Relinquished by:		Date/Time:		Received by:		Company:	
Relinquished by:		Date/Time:		Received by:		Company:	
Custody Seals Intact:		Date/Time:		Received by:		Company:	
Custody Seal No.:		Date/Time:		Received by:		Company:	
Cooler Temperature(s) °C and Other Remarks:		1.1 50.0		1.1 50.0			

Login Sample Receipt Checklist

Client: Southern Environmental Testing

Job Number: 400-270031-1

SDG Number: FF00198

Login Number: 270031

List Number: 1

Creator: Pardonner, Brett

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270031-1
SDG: FF00198

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	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25



PAGE	1	of	1
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COMPANY/CLIENT NAME		CLIENT P.O. NUMBER		ENERSOLV PROJECT NUMBER		REQUESTED ANALYSES																					
Essity Professional Hygiene																											
CLIENT POINT OF CONTACT		CLIENT PHYSICAL ADDRESS		CITY/STATE/ZIP																							
Alicia Barnes		1834 Haley Dr		Cherke, AL 35616																							
CLIENT EMAIL		PHONE NUMBER		OTHER INFORMATION																							
alicia.barnes1@essity.com		256-815-8619																									
SAMPLE COLLECTED BY		EXPEDITED REPORT DELIVERY (SURCHARGE)		PERMIT RENEWAL																							
Nigel Russ		DATE DUE (REQUIRED)																									
SET		SAMPLE DESCRIPTION		SAMPLE TRANSFER/GRAB DATE		SAMPLE TRANSFER/GRAB TIME		GRAB		COMP		OG		BOD		COD		TSS		P-ICP		TN		NH3		SV 625 (see list)	
LAB NUMBER		DSN002S		1/22/25		0645		X				X		X		X		X		X		X		X			
EFF00198-01																											



February 07, 2025

Alicia Barnes
Essity Professional Hygiene NA LLC - US
1834 Haley Drive
Cherokee, AL 35616

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
FF00199-01	DSN003S	01/27/2025	01/27/2025

Southern Environmental Testing is accredited to ISO/IEC 17025:2017 by the ANSI National Accreditation Board (ANAB) and certified by the Alabama Department of Environmental Management (ADEM) for specific tests. Our quality system meets the relevant quality system requirements of ISO 9001:2015. Not all tests performed by Southern Environmental Testing are covered by accreditation and certification. Tests within our ANAB scope of accreditation are indicated by a plus symbol (+) in the Test Result section of this report. Tests not included in our accreditation and certification are performed in accordance with Southern Environmental Testing standard operating procedures and our quality control program using, where applicable, US EPA approved methodology.

This cover page and the attached chain-of-custody records 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 us at 256-280-2567.

Reviewed by:

A handwritten signature in black ink that reads "Taylor McDonald". The signature is fluid and cursive, with the first name "Taylor" and last name "McDonald" clearly legible.

Taylor McDonald
Assistant Project Manager

2919 Fairgrounds Road SW
Decatur, AL 35603
(256) 280-2567

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

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

SAMPLE RESULTS REPORT
Report Date/Time: 02/07/2025 09:07

REPORT TO
Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616

Southern Environmental Testing maintains ANAB accreditation to ISO/IEC 17025:2017 for testing (certificate AT-3114, AT-3114.01); Enersolv's certificate, AT-2597. Tests within the scope of accreditation and/or certification are denoted by a plus symbol (+).

This report may contain information that is confidential and proprietary. The 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.

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.

Disclaimer: Information provided by the customer can affect the validity of results.

Analyte Name	Result	Units	Qualifier	Regulatory Limit
--------------	--------	-------	-----------	------------------

Sample Point: DSN003S

Sample ID: FF00199-01

Collected: 01/27/2025

Submitted: 01/27/2025

Anions by IC

+ Nitrite-Nitrogen	<0.100	mg/l
+ Nitrate-Nitrogen	1.61	mg/l

Inorganics

+ Biochemical Oxygen Demand	2.38	mg/l
+ Chemical Oxygen Demand	12.0	mg/l
+ Ammonia-Nitrogen	<0.100	mg/l
+ HEM (Oil and Grease)	<5.00	mg/l
+ Total Kjeldahl Nitrogen	1.85	mg/l
+ Total Nitrogen	3.46	mg/l
+ Total Suspended Solids	60.4	mg/l

Metals by ICP-OES

+ Total Phosphorus	2.93	mg/l
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SAMPLE RESULTS REPORT
Report Date/Time: 02/07/2025 09:07

REPORT TO Alicia Barnes Essity Professional Hygiene NA LLC - US 1834 Haley Drive Cherokee, AL 35616
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Southern Environmental Testing maintains ANAB accreditation to ISO/IEC 17025:2017 for testing (certificate AT-3114, AT-3114.01); Enersolv's certificate, AT-2597. Tests within the scope of accreditation and/or certification are denoted by a plus symbol (+).

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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.

Disclaimer: Information provided by the customer can affect the validity of results.

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

< 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)
FF00199-01	HEM (Oil and Grease)	EPA 1664A Rev. 1999	JBM	Florence	01/27/2025 07:00	01/31/2025 08:30	
FF00199-01	Total Phosphorus	EPA 200.7 Rev. 4.4/6010C	JBM	Florence	01/27/2025 07:00	01/29/2025 07:30	
FF00199-01	Nitrate-Nitrogen	EPA 300.0, Rev 2.1	LLW	Decatur	01/27/2025 07:00	01/28/2025 14:53	
FF00199-01	Nitrite-Nitrogen	EPA 300.0, Rev 2.1	LLW	Decatur	01/27/2025 07:00	01/28/2025 14:53	
FF00199-01	Ammonia-Nitrogen	FIALab 100	DE	Decatur	01/27/2025 07:00	01/29/2025 07:43	
FF00199-01	Total Kjeldahl Nitrogen	FIALab 100	RAC	Decatur	01/27/2025 07:00	01/29/2025 05:00	
FF00199-01	Chemical Oxygen Demand	Hach 8000	AGD	Florence	01/27/2025 07:00	01/29/2025 12:27	
FF00199-01	Total Suspended Solids	SM 2540D-2015	GH	Florence	01/27/2025 07:00	01/29/2025 08:00	
FF00199-01	Biochemical Oxygen Demand	SM 5210 B-2016	GH	Florence	01/27/2025 07:00	01/27/2025 13:00	02/01/2025 08:00

ANALYTICAL REPORT

PREPARED FOR

Attn: Taylor Terrell
Southern Environmental Testing
3103 Northington Court
Florence, Alabama 35630

Generated 2/6/2025 8:50:44 PM

JOB DESCRIPTION

Essity Professional Hygiene
FF00199

JOB NUMBER

400-270030-1

Eurofins Pensacola

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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2/6/2025 8:50:44 PM

Authorized for release by
Cheyenne Whitmire, Senior Project Manager
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

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Case Narrative

Client: Southern Environmental Testing
Project: Essity Professional Hygiene

Job ID: 400-270030-1

Job ID: 400-270030-1

Eurofins Pensacola

Job Narrative 400-270030-1

Receipt

The sample was received on 1/29/2025 9:41 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS Semi VOA

Method 625.1: The continuing calibration verification (CCV) associated with batch 400-698479 recovered above the upper control limit for Bis(2-chloroethyl)ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 625.1: The laboratory control sample duplicate (LCSD) for preparation batch 400-698327 and analytical batch 400-698479 recovered outside control limits for the following analytes: Benzidine. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-698327 and analytical batch 400-698479 recovered outside control limits for the following analytes: Benzidine.

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

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Detection Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Client Sample ID: DSN003S

Lab Sample ID: 400-270030-1

No Detections.

1

2

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4

5

6

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This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Method	Method Description	Protocol	Laboratory
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET PEN
625	Liquid-Liquid Extraction	EPA	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-270030-1	DSN003S	Water	01/27/25 07:00	01/29/25 09:41

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- 2
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- 13
- 14

Client Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Client Sample ID: DSN003S

Lab Sample ID: 400-270030-1

Date Collected: 01/27/25 07:00

Matrix: Water

Date Received: 01/29/25 09:41

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Acenaphthylene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Anthracene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Benzidine	<0.020	*+ *1	0.020		mg/L		02/03/25 18:05	02/05/25 16:11	1
Benzo[a]anthracene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Benzo[a]pyrene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Benzo[b]fluoranthene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Benzo[g,h,i]perylene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Benzo[k]fluoranthene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Bis(2-chloroethoxy)methane	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Bis(2-chloroethyl)ether	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Bis(2-ethylhexyl) phthalate	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
4-Bromophenyl phenyl ether	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Butyl benzyl phthalate	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
4-Chloro-3-methylphenol	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
2-Chloronaphthalene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
2-Chlorophenol	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
4-Chlorophenyl phenyl ether	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Chrysene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Dibenz(a,h)anthracene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
3,3'-Dichlorobenzidine	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
2,4-Dichlorophenol	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Diethyl phthalate	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
2,4-Dimethylphenol	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Dimethyl phthalate	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Di-n-butyl phthalate	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
4,6-Dinitro-2-methylphenol	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
2,4-Dinitrophenol	<0.024		0.024		mg/L		02/03/25 18:05	02/05/25 16:11	1
2,4-Dinitrotoluene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
2,6-Dinitrotoluene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Di-n-octyl phthalate	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Fluorene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Hexachlorobenzene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Hexachlorobutadiene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Hexachlorocyclopentadiene	<0.016		0.016		mg/L		02/03/25 18:05	02/05/25 16:11	1
Hexachloroethane	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Indeno[1,2,3-cd]pyrene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Isophorone	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Naphthalene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Nitrobenzene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
2-Nitrophenol	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
4-Nitrophenol	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
N-Nitrosodimethylamine	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
N-Nitrosodi-n-propylamine	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
N-Nitrosodiphenylamine	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
bis (2-chloroisopropyl) ether	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Pentachlorophenol	<0.016		0.016		mg/L		02/03/25 18:05	02/05/25 16:11	1
Phenanthrene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1

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Client Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Client Sample ID: DSN003S

Lab Sample ID: 400-270030-1

Date Collected: 01/27/25 07:00

Matrix: Water

Date Received: 01/29/25 09:41

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Pyrene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
1,2,4-Trichlorobenzene	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
2,4,6-Trichlorophenol	<0.0080		0.0080		mg/L		02/03/25 18:05	02/05/25 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		32 - 109				02/03/25 18:05	02/05/25 16:11	1
2-Fluorophenol	41		10 - 104				02/03/25 18:05	02/05/25 16:11	1
Nitrobenzene-d5	68		31 - 111				02/03/25 18:05	02/05/25 16:11	1
Phenol-d5	28		10 - 110				02/03/25 18:05	02/05/25 16:11	1
Terphenyl-d14	104		30 - 129				02/03/25 18:05	02/05/25 16:11	1
2,4,6-Tribromophenol	81		15 - 135				02/03/25 18:05	02/05/25 16:11	1

Definitions/Glossary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.

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 Probable 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

Lab Chronicle

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Client Sample ID: DSN003S

Date Collected: 01/27/25 07:00

Date Received: 01/29/25 09:41

Lab Sample ID: 400-270030-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			311.2 mL	1 mL	698327	02/03/25 18:05	DPB	EET PEN
Total/NA	Analysis	625.1		1	0.4 mL	0.4 mL	698479	02/05/25 16:11	S1B	EET PEN

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

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QC Association Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

GC/MS Semi VOA

Prep Batch: 698327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270030-1	DSN003S	Total/NA	Water	625	
MB 400-698327/1-A	Method Blank	Total/NA	Water	625	
LCS 400-698327/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 400-698327/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 698479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-270030-1	DSN003S	Total/NA	Water	625.1	698327
MB 400-698327/1-A	Method Blank	Total/NA	Water	625.1	698327
LCS 400-698327/2-A	Lab Control Sample	Total/NA	Water	625.1	698327
LCSD 400-698327/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	698327

QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-698327/1-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Acenaphthylene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Anthracene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzidine	<0.025		0.025		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[a]anthracene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[a]pyrene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[b]fluoranthene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[g,h,i]perylene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Benzo[k]fluoranthene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Bis(2-chloroethoxy)methane	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Bis(2-chloroethyl)ether	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Bis(2-ethylhexyl) phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4-Bromophenyl phenyl ether	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Butyl benzyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4-Chloro-3-methylphenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2-Chloronaphthalene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2-Chlorophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4-Chlorophenyl phenyl ether	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Chrysene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Dibenz(a,h)anthracene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
3,3'-Dichlorobenzidine	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4-Dichlorophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Diethyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4-Dimethylphenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Dimethyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Di-n-butyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4,6-Dinitro-2-methylphenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4-Dinitrophenol	<0.030		0.030		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4-Dinitrotoluene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,6-Dinitrotoluene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Di-n-octyl phthalate	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Fluorene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Hexachlorobenzene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Hexachlorobutadiene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Hexachlorocyclopentadiene	<0.020		0.020		mg/L		02/03/25 18:05	02/05/25 13:08	1
Hexachloroethane	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Indeno[1,2,3-cd]pyrene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Isophorone	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Naphthalene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Nitrobenzene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2-Nitrophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
4-Nitrophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
N-Nitrosodimethylamine	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
N-Nitrosodi-n-propylamine	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
N-Nitrosodiphenylamine	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
bis (2-chloroisopropyl) ether	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Pentachlorophenol	<0.020		0.020		mg/L		02/03/25 18:05	02/05/25 13:08	1

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QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-698327/1-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Phenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
Pyrene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
1,2,4-Trichlorobenzene	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1
2,4,6-Trichlorophenol	<0.010		0.010		mg/L		02/03/25 18:05	02/05/25 13:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		32 - 109	02/03/25 18:05	02/05/25 13:08	1
2-Fluorophenol	40		10 - 104	02/03/25 18:05	02/05/25 13:08	1
Nitrobenzene-d5	69		31 - 111	02/03/25 18:05	02/05/25 13:08	1
Phenol-d5	25		10 - 110	02/03/25 18:05	02/05/25 13:08	1
Terphenyl-d14	99		30 - 129	02/03/25 18:05	02/05/25 13:08	1
2,4,6-Tribromophenol	79		15 - 135	02/03/25 18:05	02/05/25 13:08	1

Lab Sample ID: LCS 400-698327/2-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.120	0.101		mg/L		84	47 - 145
Acenaphthylene	0.120	0.101		mg/L		84	33 - 145
Anthracene	0.120	0.106		mg/L		89	27 - 133
1,2-Diphenylhydrazine (as Azobenzene)	0.120	0.0991		mg/L		83	23 - 138
Benzidine	0.675	0.338		mg/L		50	1 - 73
Benzo[a]anthracene	0.120	0.105		mg/L		88	33 - 143
Benzo[a]pyrene	0.120	0.112		mg/L		93	17 - 163
Benzo[b]fluoranthene	0.120	0.117		mg/L		98	24 - 159
Benzo[g,h,i]perylene	0.120	0.105		mg/L		87	1 - 219
Benzo[k]fluoranthene	0.120	0.109		mg/L		91	11 - 162
Bis(2-chloroethoxy)methane	0.120	0.0864		mg/L		72	33 - 184
Bis(2-chloroethyl)ether	0.120	0.109		mg/L		91	12 - 158
Bis(2-ethylhexyl) phthalate	0.120	0.119		mg/L		99	8 - 158
4-Bromophenyl phenyl ether	0.120	0.103		mg/L		85	53 - 127
Butyl benzyl phthalate	0.120	0.120		mg/L		100	1 - 152
4-Chloro-3-methylphenol	0.120	0.0910		mg/L		76	22 - 147
2-Chloronaphthalene	0.120	0.0953		mg/L		79	24 - 132
2-Chlorophenol	0.120	0.0784		mg/L		65	23 - 134
4-Chlorophenyl phenyl ether	0.120	0.110		mg/L		91	25 - 158
Chrysene	0.120	0.109		mg/L		91	17 - 168
Dibenz(a,h)anthracene	0.120	0.102		mg/L		85	1 - 227
3,3'-Dichlorobenzidine	0.240	0.557	E	mg/L		232	1 - 262
2,4-Dichlorophenol	0.120	0.0874		mg/L		73	39 - 135
Diethyl phthalate	0.120	0.113		mg/L		94	1 - 120
2,4-Dimethylphenol	0.120	0.0754		mg/L		63	32 - 120
Dimethyl phthalate	0.120	0.103		mg/L		86	1 - 120
Di-n-butyl phthalate	0.120	0.118		mg/L		98	1 - 120
4,6-Dinitro-2-methylphenol	0.240	0.249		mg/L		104	1 - 181
2,4-Dinitrophenol	0.240	0.271		mg/L		113	1 - 191

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QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-698327/2-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 698327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	0.120	0.109		mg/L		91	39 - 139
2,6-Dinitrotoluene	0.120	0.110		mg/L		92	50 - 158
Di-n-octyl phthalate	0.120	0.118		mg/L		98	4 - 146
Fluorene	0.120	0.107		mg/L		89	59 - 121
Hexachlorobenzene	0.120	0.110		mg/L		91	1 - 152
Hexachlorobutadiene	0.120	0.0759		mg/L		63	24 - 120
Hexachlorocyclopentadiene	0.120	0.0988		mg/L		82	10 - 124
Hexachloroethane	0.120	0.0789		mg/L		66	40 - 120
Indeno[1,2,3-cd]pyrene	0.120	0.0985		mg/L		82	1 - 171
Isophorone	0.120	0.0877		mg/L		73	21 - 196
Naphthalene	0.120	0.0819		mg/L		68	21 - 133
Nitrobenzene	0.120	0.0818		mg/L		68	35 - 180
2-Nitrophenol	0.120	0.0893		mg/L		74	29 - 182
4-Nitrophenol	0.240	0.112		mg/L		47	1 - 132
N-Nitrosodimethylamine	0.120	0.0447		mg/L		37	10 - 115
N-Nitrosodi-n-propylamine	0.120	0.0952		mg/L		79	1 - 230
N-Nitrosodiphenylamine	0.119	0.101		mg/L		85	29 - 138
bis (2-chloroisopropyl) ether	0.120	0.0949		mg/L		79	36 - 166
Pentachlorophenol	0.240	0.195		mg/L		81	14 - 176
Phenanthrene	0.120	0.105		mg/L		87	54 - 120
Phenol	0.120	0.0341		mg/L		28	5 - 120
Pyrene	0.120	0.113		mg/L		95	52 - 120
1,2,4-Trichlorobenzene	0.120	0.0794		mg/L		66	44 - 142
2,4,6-Trichlorophenol	0.120	0.0997		mg/L		83	37 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	72		32 - 109
2-Fluorophenol	36		10 - 104
Nitrobenzene-d5	74		31 - 111
Phenol-d5	30		10 - 110
Terphenyl-d14	102		30 - 129
2,4,6-Tribromophenol	111		15 - 135

Lab Sample ID: LCSD 400-698327/3-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.120	0.105		mg/L		87	47 - 145	4	48
Acenaphthylene	0.120	0.105		mg/L		88	33 - 145	4	74
Anthracene	0.120	0.112		mg/L		93	27 - 133	5	66
1,2-Diphenylhydrazine (as Azobenzene)	0.120	0.107		mg/L		89	23 - 138	8	40
Benzidine	0.675	0.513	*+ *1	mg/L		76	1 - 73	41	40
Benzo[a]anthracene	0.120	0.107		mg/L		89	33 - 143	2	53
Benzo[a]pyrene	0.120	0.114		mg/L		95	17 - 163	2	72
Benzo[b]fluoranthene	0.120	0.121		mg/L		101	24 - 159	4	71
Benzo[g,h,i]perylene	0.120	0.111		mg/L		92	1 - 219	5	97
Benzo[k]fluoranthene	0.120	0.109		mg/L		91	11 - 162	0	63

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QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-698327/3-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	0.120	0.0923		mg/L		77	33 - 184	7	54
Bis(2-chloroethyl)ether	0.120	0.113		mg/L		94	12 - 158	4	108
Bis(2-ethylhexyl) phthalate	0.120	0.121		mg/L		101	8 - 158	2	82
4-Bromophenyl phenyl ether	0.120	0.108		mg/L		90	53 - 127	6	43
Butyl benzyl phthalate	0.120	0.126		mg/L		105	1 - 152	5	60
4-Chloro-3-methylphenol	0.120	0.0941		mg/L		78	22 - 147	3	73
2-Chloronaphthalene	0.120	0.102		mg/L		85	24 - 132	7	24
2-Chlorophenol	0.120	0.0825		mg/L		69	23 - 134	5	61
4-Chlorophenyl phenyl ether	0.120	0.113		mg/L		94	25 - 158	3	61
Chrysene	0.120	0.111		mg/L		93	17 - 168	2	87
Dibenz(a,h)anthracene	0.120	0.108		mg/L		90	1 - 227	6	126
3,3'-Dichlorobenzidine	0.240	0.600	E	mg/L		250	1 - 262	7	108
2,4-Dichlorophenol	0.120	0.0922		mg/L		77	39 - 135	5	50
Diethyl phthalate	0.120	0.115		mg/L		96	1 - 120	2	100
2,4-Dimethylphenol	0.120	0.0791		mg/L		66	32 - 120	5	58
Dimethyl phthalate	0.120	0.107		mg/L		89	1 - 120	4	183
Di-n-butyl phthalate	0.120	0.122		mg/L		101	1 - 120	3	47
4,6-Dinitro-2-methylphenol	0.240	0.263		mg/L		110	1 - 181	6	203
2,4-Dinitrophenol	0.240	0.285		mg/L		119	1 - 191	5	132
2,4-Dinitrotoluene	0.120	0.112		mg/L		93	39 - 139	2	42
2,6-Dinitrotoluene	0.120	0.115		mg/L		96	50 - 158	4	48
Di-n-octyl phthalate	0.120	0.120		mg/L		100	4 - 146	2	69
Fluorene	0.120	0.111		mg/L		92	59 - 121	3	38
Hexachlorobenzene	0.120	0.117		mg/L		98	1 - 152	7	55
Hexachlorobutadiene	0.120	0.0833		mg/L		69	24 - 120	9	62
Hexachlorocyclopentadiene	0.120	0.109		mg/L		91	10 - 124	10	40
Hexachloroethane	0.120	0.0871		mg/L		73	40 - 120	10	52
Indeno[1,2,3-cd]pyrene	0.120	0.105		mg/L		87	1 - 171	6	99
Isophorone	0.120	0.0925		mg/L		77	21 - 196	5	40
Naphthalene	0.120	0.0867		mg/L		72	21 - 133	6	65
Nitrobenzene	0.120	0.0859		mg/L		72	35 - 180	5	62
2-Nitrophenol	0.120	0.0959		mg/L		80	29 - 182	7	55
4-Nitrophenol	0.240	0.105		mg/L		44	1 - 132	7	131
N-Nitrosodimethylamine	0.120	0.0478		mg/L		40	10 - 115	7	40
N-Nitrosodi-n-propylamine	0.120	0.0997		mg/L		83	1 - 230	5	87
N-Nitrosodiphenylamine	0.119	0.106		mg/L		89	29 - 138	6	40
bis (2-chloroisopropyl) ether	0.120	0.101		mg/L		84	36 - 166	6	76
Pentachlorophenol	0.240	0.205		mg/L		86	14 - 176	5	86
Phenanthrene	0.120	0.109		mg/L		91	54 - 120	4	39
Phenol	0.120	0.0357		mg/L		30	5 - 120	5	64
Pyrene	0.120	0.120		mg/L		100	52 - 120	6	49
1,2,4-Trichlorobenzene	0.120	0.0864		mg/L		72	44 - 142	8	50
2,4,6-Trichlorophenol	0.120	0.106		mg/L		88	37 - 144	6	58

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	74		32 - 109
2-Fluorophenol	40		10 - 104
Nitrobenzene-d5	76		31 - 111

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QC Sample Results

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-698327/3-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 698327

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Phenol-d5	29		10 - 110
Terphenyl-d14	104		30 - 129
2,4,6-Tribromophenol	108		15 - 135

Chain of Custody Record



Client Information		Sampler: A. Dixon		Lab PM: Whitmore, Cheyenne R		COC No: 400-95882-34721.1	
Client Contact: Allison Dixon		Phone: 256-740-5532		E-Mail: Cheyenne.Whitmore@Eurofinset.com		Page: Page 1 of 1	
Company: Southern Environmental Testing		Address: 3103 Northington Ct		City: Florence		Job #:	
State, Zip: AL, 35630		Phone: 256-280-2569		Email: adixon@setesting.com		Project #:	
Site: Essity Professional Hygiene		Due Date Requested:		TAT Requested (days): STANDARD		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification		Sample Date 1/27/25		Sample Type (C=comp, G=grab) G		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air) W	
DSN003S		1/27/25		G		W	
Field Filtered Sample (Yes or No)		SV 625 (permit renewal list)		X		Total Number of containers	
Special Instructions/Note:		FF00199-01					
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date/Time:		Special Instructions/QC Requirements:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No				1129/25 9:41		1.17010	

Login Sample Receipt Checklist

Client: Southern Environmental Testing

Job Number: 400-270030-1

SDG Number: FF00199

Login Number: 270030

List Number: 1

Creator: Pardonner, Brett

List Source: Eurofins Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Environmental Testing
Project/Site: Essity Professional Hygiene

Job ID: 400-270030-1
SDG: FF00199

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	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-25
Kansas	NELAP	E-10253	10-31-25
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-25
North Carolina (WW/SW)	State	314	12-31-25
Oklahoma	NELAP	9810	08-31-25
Pennsylvania	NELAP	68-00467	01-31-26
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	P330-21-00056	01-09-26
USDA	US Federal Programs	FLGNV23001	01-08-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25



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