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**Alabama Department of Environmental Management**  
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**KAY IVEY**  
GOVERNOR

SEPTEMBER 29, 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:

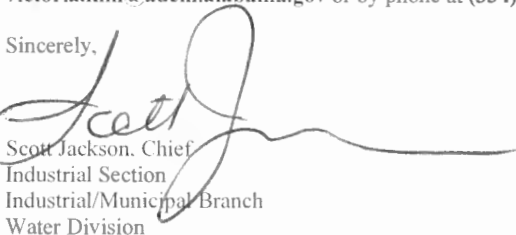
1. The user has logged in to E2 since October 1, 2019; and
2. The E2 user account is set up using a unique email address.

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](mailto: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:**

## Revised DRAFT

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Alabama Department of Environmental Management

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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 <sup>2</sup> | Sample Type <sup>1</sup> | Seasonal                          |
|--------------------------------------------------------------------------|-------------------------|------------------------|---------|--------------------------|-------|---------------------------|-------|-------------------------------|--------------------------|-----------------------------------|
| Temperature, Water Deg. Fahrenheit (00011)<br>Effluent Gross Value       | *****                   | *****                  | *****   | *****                    | ***** | (Report)<br>Maximum Daily | deg F | Monthly                       | Grab                     | All Months                        |
| BOD, 5-Day (20 Deg. C) (00310)<br>Effluent Gross Value                   | 5211<br>Monthly Average | 9621<br>Maximum Daily  | lbs/day | *****                    | ***** | *****                     | ***** | 2X Weekly                     | Composite                | All Months                        |
| pH (00400)<br>Effluent Gross Value                                       | *****                   | *****                  | *****   | 6.0<br>Minimum Daily     | ***** | 9.0<br>Maximum Daily      | S.U.  | 2X Weekly                     | Grab                     | All Months                        |
| Solids, Total Suspended (00530)<br>Effluent Gross Value                  | 6815<br>Monthly Average | 13128<br>Maximum Daily | lbs/day | *****                    | ***** | *****                     | ***** | 2X Weekly                     | Composite                | All Months                        |
| Nitrogen, Ammonia Total (As N) (00610)<br>Effluent Gross Value           | *****                   | *****                  | *****   | *****                    | ***** | (Report)<br>Maximum Daily | mg/l  | Monthly                       | Composite                | All Months                        |
| Nitrogen, Kjeldahl Total (As N) (00625)<br>Effluent Gross Value          | *****                   | *****                  | *****   | *****                    | ***** | (Report)<br>Maximum Daily | mg/l  | Monthly                       | Composite                | Apr, May, Jun, Jul, Aug, Sep, Oct |
| Nitrite Plus Nitrate Total I Det. (As N) (00630)<br>Effluent Gross Value | *****                   | *****                  | *****   | *****                    | ***** | (Report)<br>Maximum Daily | mg/l  | Monthly                       | Composite                | Apr, May, Jun, Jul, Aug, Sep, Oct |
| Phosphorus, Total (As P) (00665)<br>Effluent Gross Value                 | *****                   | *****                  | *****   | *****                    | ***** | (Report)<br>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 <sup>2</sup> | Sample Type <sup>1</sup> | Seasonal                   |
|-----------------------------------------------------------------------|-----------------------------|---------------------------|---------|--------------------------|-------|--------------------|----------------|-------------------------------|--------------------------|----------------------------|
| Pentachlorophenol (39032) Effluent Gross Value 4/                     | *****                       | 0.0<br>Maximum Daily      | lbs/day | *****                    | ***** | *****              | *****          | Monthly                       | Grab                     | All Months                 |
| Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value | (Report)<br>Monthly Average | (Report)<br>Maximum Daily | MGD     | *****                    | ***** | *****              | *****          | Daily                         | Totalizer                | All Months                 |
| Certification - River Monitoring (51946) 5/<br>Effluent Gross Value   | *****                       | *****                     | *****   | *****                    | ***** | 0<br>Maximum Daily | Yes=0;No<br>=1 | Monthly                       | Not<br>Applicable        | May, Jun, Jul,<br>Aug, Sep |
| Trichlorophenol (81848) Effluent Gross Value 4/                       | *****                       | 0.0<br>Maximum Daily      | lbs/day | *****                    | ***** | *****              | *****          | Monthly                       | Grab                     | All Months                 |

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- 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 <sup>2</sup> | Sample Type <sup>1</sup> | Seasonal   |
|-----------------------------------------------------------------|---------------------|--------------------|-------------------|--------------------------|-------|-------|-------|-------------------------------|--------------------------|------------|
| Toxicity, Ceriodaphnia Acute (61425) 4/<br>Effluent Gross Value | *****               | 0<br>Single Sample | pass=0:<br>fail=1 | *****                    | ***** | ***** | ***** | Annually                      | Grab                     | All Months |
| Toxicity, Pimephales Acute (61427) 4/<br>Effluent Gross Value   | *****               | 0<br>Single Sample | pass=0:<br>fail=1 | *****                    | ***** | ***** | ***** | Annually                      | 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/ 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 <sup>2</sup> | Sample Type <sup>1</sup> | Seasonal   |
|-----------------------------------------------------------------------------|-----------------------------|---------------------------|-------|---------------------------|-------|---------------------------|-------|-------------------------------|--------------------------|------------|
| pH (00400)<br>Effluent Gross Value                                          | *****                       | *****                     | ***** | (Report)<br>Minimum Daily | ***** | (Report)<br>Maximum Daily | S.U.  | Semi-Annually                 | Grab                     | All Months |
| Solids. Total Suspended<br>(00530)<br>Effluent Gross Value                  | *****                       | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Semi-Annually                 | Grab                     | All Months |
| Oil & Grease (00556)<br>Effluent Gross Value                                | *****                       | *****                     | ***** | *****                     | ***** | 15.0<br>Maximum Daily     | mg/l  | Semi-Annually                 | Grab                     | All Months |
| Flow. In Conduit or Thru<br>Treatment Plant (50050)<br>Effluent Gross Value | (Report)<br>Monthly Average | (Report)<br>Maximum Daily | MGD   | *****                     | ***** | *****                     | ***** | Semi-Annually                 | Estimate                 | 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/ 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 <sup>2</sup> | Sample Type <sup>1</sup> | Seasonal   |
|-----------------------------------------------------------------------------|-----------------------------|---------------------------|-------|---------------------------|-------|---------------------------|-------|-------------------------------|--------------------------|------------|
| pH (00400)<br>Effluent Gross Value                                          | *****                       | *****                     | ***** | (Report)<br>Minimum Daily | ***** | (Report)<br>Maximum Daily | S.U.  | Semi-Annually                 | Grab                     | All Months |
| Solids, Total Suspended<br>(00530)<br>Effluent Gross Value                  | *****                       | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Semi-Annually                 | Grab                     | All Months |
| Oil & Grease (00556)<br>Effluent Gross Value                                | *****                       | *****                     | ***** | *****                     | ***** | 15.0<br>Maximum Daily     | mg/l  | Semi-Annually                 | Grab                     | All Months |
| Flow, In Conduit or Thru<br>Treatment Plant (50050)<br>Effluent Gross Value | (Report)<br>Monthly Average | (Report)<br>Maximum Daily | MGD   | *****                     | ***** | *****                     | ***** | Semi-Annually                 | Calculated               | All Months |
| Chemical Oxygen Demand<br>(COD) (81017)<br>Effluent Gross Value             | *****                       | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Semi-Annually                 | 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/ 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 <sup>2</sup> | Sample Type <sup>1</sup> | Seasonal   |
|--------------------------------------------------------------------------|---------------------|---------------------------|-------|---------------------------|-------|---------------------------|-------|-------------------------------|--------------------------|------------|
| Temperature, Water Deg. Fahrenheit (00011)<br>Effluent Gross Value       | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | deg F | Monthly                       | Grab                     | All Months |
| BOD, 5-Day (20 Deg. C) (00310)<br>Effluent Gross Value                   | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Monthly                       | Grab                     | All Months |
| pH (00400)<br>Effluent Gross Value                                       | *****               | *****                     | ***** | (Report)<br>Minimum Daily | ***** | (Report)<br>Maximum Daily | S.U.  | Monthly                       | Grab                     | All Months |
| Solids, Total Suspended (00530)<br>Effluent Gross Value                  | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Monthly                       | Grab                     | All Months |
| Zinc Total Recoverable (01094) 5/<br>Effluent Gross Value                | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | ug/l  | Monthly                       | Grab                     | All Months |
| Chromium Total 5/<br>Recoverable (01118)<br>Effluent Gross Value         | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | ug/l  | Monthly                       | Grab                     | All Months |
| Copper Total Recoverable (01119) 5/<br>Effluent Gross Value              | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | ug/l  | Monthly                       | Grab                     | All Months |
| Flow, In Conduit or Thru Treatment Plant (50050)<br>Effluent Gross Value | *****               | (Report)<br>Maximum Daily | MGD   | *****                     | ***** | *****                     | ***** | Monthly                       | Estimate                 | All Months |
| Chlorine, Total Residual (50060)<br>Effluent Gross Value                 | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>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 <sup>2</sup> | Sample Type <sup>1</sup> | Seasonal   |
|---------------------------------------------------------------|---------------------|-------|-------|--------------------------|-------|---------------------------|-------|-------------------------------|--------------------------|------------|
| Cyanide, Free Available (51173)<br>Effluent Gross Value       | *****               | ***** | ***** | *****                    | ***** | 22.0<br>Maximum Daily     | ug/l  | Monthly                       | Grab                     | All Months |
| Solids, Total Dissolved (TDS) (70296)<br>Effluent Gross Value | *****               | ***** | ***** | *****                    | ***** | (Report)<br>Maximum Daily | mg/l  | Monthly                       | Grab                     | All Months |

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- 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.

**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 November, 2026**. 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**

1. The cooling water intake structure used by the permittee has been evaluated using available information. At this time, the Department has determined, using BPJ, that the cooling water intake structure represents the best technology available (BTA) to minimize adverse environmental impact in accordance with Section 316(b) of the Federal Clean Water Act (33 U.S.C. section 1326).
2. The permittee shall submit the following information at least 180 days prior to expiration of the permit:
  - a. design intake flow of the CWIS
  - b. percentage of intake flow, based on highest monthly average in last 5 years, used for cooling purposes;
  - c. an estimate of the intake flow reduction at the facility based upon the use of a 100 percent (or some lesser percentage) closed-cycle re-circulating cooling water system compared to a conventional once-through cooling water system
  - d. through screen design intake flow velocity
  - e. any impingement and entrainment data that may have been collected based on the operation of the facility's CWIS, collected since the effective date of this NPDES permit
  - f. a detailed description of any changes in the operations of the CWIS, or changes in the type of technologies used at the CWIS such as screens or other technologies affecting the rates of impingement and/or entrainment of fish and shellfish
3. The permittee is required to operate and maintain the CWIS in a manner that minimizes impingement and entrainment levels. Documentation detailing the steps that have and are being taken to minimize the impingement and entrainment levels shall be maintained on site and made available upon request.
4. Nothing in this Permit authorizes take for the purposes of a facility compliance with the Endangered Species Act. Under the Endangered Species Act, take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct, of endangered or threatened species.

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

## FACT SHEET

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

**Date:** 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](mailto: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](mailto: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  
REVISED DATE: September 25, 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

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

|                                |         |
|--------------------------------|---------|
| 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      |

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|                               |                                              |
|-------------------------------|----------------------------------------------|
| 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)<br>Effluent Gross Value       | *****                       | *****                     | *****   | *****                    | ***** | (Report)<br>Maximum Daily | deg F          | Monthly          | Grab           | All Months                        | BPJ   |
| BOD, 5-Day (20 Deg. C) (00310)<br>Effluent Gross Value                   | 5211<br>Monthly Average     | 9621<br>Maximum Daily     | lbs/day | *****                    | ***** | *****                     | *****          | 2X Weekly        | Composite      | All Months                        | EGL   |
| pH (00400)<br>Effluent Gross Value                                       | *****                       | *****                     | *****   | 6.0<br>Minimum Daily     | ***** | 9.0<br>Maximum Daily      | S.U.           | 2X Weekly        | Grab           | All Months                        | BPJ   |
| Solids, Total Suspended (00530)<br>Effluent Gross Value                  | 6815<br>Monthly Average     | 13128<br>Maximum Daily    | lbs/day | *****                    | ***** | *****                     | *****          | 2X Weekly        | Composite      | All Months                        | EGL   |
| Nitrogen, Ammonia Total (As N) (00610)<br>Effluent Gross Value           | *****                       | *****                     | *****   | *****                    | ***** | (Report)<br>Maximum Daily | mg/l           | Monthly          | Composite      | All Months                        | BPJ   |
| Nitrogen, Kjeldahl Total (As N) (00625)<br>Effluent Gross Value          | *****                       | *****                     | *****   | *****                    | ***** | (Report)<br>Maximum Daily | mg/l           | Monthly          | Composite      | Apr, May, Jun, Jul, Aug, Sep, Oct | BPJ   |
| Nitrite Plus Nitrate Total 1 Det. (As N) (00630)<br>Effluent Gross Value | *****                       | *****                     | *****   | *****                    | ***** | (Report)<br>Maximum Daily | mg/l           | Monthly          | Composite      | Apr, May, Jun, Jul, Aug, Sep, Oct | BPJ   |
| Phosphorus, Total (As P) (00665)<br>Effluent Gross Value                 | *****                       | *****                     | *****   | *****                    | ***** | (Report)<br>Maximum Daily | mg/l           | Monthly          | Composite      | Apr, May, Jun, Jul, Aug, Sep, Oct | BPJ   |
| Pentachlorophenol (39032)<br>Effluent Gross Value                        | *****                       | 0.0<br>Maximum Daily      | lbs/day | *****                    | ***** | *****                     | *****          | Monthly          | Grab           | All Months                        | EGL   |
| Flow, In Conduit or Thru Treatment Plant (50050)<br>Effluent Gross Value | (Report)<br>Monthly Average | (Report)<br>Maximum Daily | MGD     | *****                    | ***** | *****                     | *****          | Daily            | Totalizer      | All Months                        | BPJ   |
| Certification - River Monitoring (51946)<br>Effluent Gross Value         | *****                       | *****                     | *****   | *****                    | ***** | 0<br>Maximum Daily        | Yes=0;<br>No=1 | Monthly          | Not Applicable | May, Jun, Jul, Aug, Sep           | BPJ   |
| Trichlorophenol (81848)<br>Effluent Gross Value                          | *****                       | 0.0<br>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)<br>Effluent Gross Value | *****               | 0<br>Single Sample | pass=0; fail=1 | *****                    | ***** | ***** | ***** | Annually         | Grab        | All Months | WQBEL |
| Toxicity, Pimephales Acute (61427)<br>Effluent Gross Value   | *****               | 0<br>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)<br>Effluent Gross Value                                       | *****                       | *****                     | ***** | (Report)<br>Minimum Daily | ***** | (Report)<br>Maximum Daily | S.U.  | Semi-Annually    | Grab        | All Months | BPJ   |
| Solids, Total Suspended (00530)<br>Effluent Gross Value                  | *****                       | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Semi-Annually    | Grab        | All Months | BPJ   |
| Oil & Grease (00556)<br>Effluent Gross Value                             | *****                       | *****                     | ***** | *****                     | ***** | 15.0<br>Maximum Daily     | mg/l  | Semi-Annually    | Grab        | All Months | BPJ   |
| Flow, In Conduit or Thru Treatment Plant (50050)<br>Effluent Gross Value | (Report)<br>Monthly Average | (Report)<br>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)<br>Effluent Gross Value                                       | *****                       | *****                     | ***** | (Report)<br>Minimum Daily | ***** | (Report)<br>Maximum Daily | S.U.  | Semi-Annually | Grab        | All Months | BPJ   |
| Solids, Total Suspended (00530)<br>Effluent Gross Value                  | *****                       | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Semi-Annually | Grab        | All Months | BPJ   |
| Oil & Grease (00556)<br>Effluent Gross Value                             | *****                       | *****                     | ***** | *****                     | ***** | 15.0<br>Maximum Daily     | mg/l  | Semi-Annually | Grab        | All Months | BPJ   |
| Flow, In Conduit or Thru Treatment Plant (50050)<br>Effluent Gross Value | (Report)<br>Monthly Average | (Report)<br>Maximum Daily | MGD   | *****                     | ***** | *****                     | ***** | Semi-Annually | Calculated  | All Months | BPJ   |
| Chemical Oxygen Demand (COD) (81017)<br>Effluent Gross Value             | *****                       | *****                     | ***** | *****                     | ***** | (Report)<br>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)<br>Effluent Gross Value       | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | deg F | Monthly     | Grab        | All Months | BPJ   |
| BOD, 5-Day (20 Deg. C) (00310)<br>Effluent Gross Value                   | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Monthly     | Grab        | All Months | BPJ   |
| pH (00400)<br>Effluent Gross Value                                       | *****               | *****                     | ***** | (Report)<br>Minimum Daily | ***** | (Report)<br>Maximum Daily | S.U.  | Monthly     | Grab        | All Months | BPJ   |
| Solids, Total Suspended (00530)<br>Effluent Gross Value                  | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Monthly     | Grab        | All Months | BPJ   |
| Zinc Total Recoverable (01094)<br>Effluent Gross Value                   | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | ug/l  | Monthly     | Grab        | All Months | BPJ   |
| Chromium Total Recoverable (01118)<br>Effluent Gross Value               | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | ug/l  | Monthly     | Grab        | All Months | BPJ   |
| Copper Total Recoverable (01119)<br>Effluent Gross Value                 | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | ug/l  | Monthly     | Grab        | All Months | BPJ   |
| Flow, In Conduit or Thru Treatment Plant (50050)<br>Effluent Gross Value | *****               | (Report)<br>Maximum Daily | MGD   | *****                     | ***** | *****                     | ***** | Monthly     | Estimate    | All Months | BPJ   |
| Chlorine, Total Residual (50060)<br>Effluent Gross Value                 | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>Maximum Daily | mg/l  | Monthly     | Grab        | All Months | BPJ   |
| Cyanide, Free Available (51173)<br>Effluent Gross Value                  | *****               | *****                     | ***** | *****                     | ***** | 22.0<br>Maximum Daily     | ug/l  | Monthly     | Grab        | All Months | WQBEL |
| Solids, Total Dissolved (TDS) (70296)<br>Effluent Gross Value            | *****               | *****                     | ***** | *****                     | ***** | (Report)<br>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 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).

\*Revision Note: The CWIS determination above was revised on September 25, 2026, and is superseded by the discussion in the "September 25, 2026 Revision" section below.

#### **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.

#### **BOD<sub>5</sub> and TSS**

The facility commented that the BOD<sub>5</sub> 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 BOD<sub>5</sub> 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 BOD<sub>5</sub> 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.

### **September 25, 2026 Revision**

Part IV.C of the permit has been revised to include the following CWIS requirements, based on the Department's best professional judgment (BPJ).

#### **C. COOLING WATER INTAKE STRUCTURE (CWIS) REQUIREMENTS**

1. The cooling water intake structure used by the permittee has been evaluated using available information. At this time, the Department has determined, using BPJ, that the cooling water intake structure represents the best technology available (BTA) to minimize adverse environmental impact in accordance with Section 316(b) of the Federal Clean Water Act (33 U.S.C. section 1326).
2. The permittee shall submit the following information at least 180 days prior to expiration of the permit:
  - a. design intake flow of the CWIS
  - b. percentage of intake flow, based on highest monthly average in last 5 years, used for cooling purposes;
  - c. an estimate of the intake flow reduction at the facility based upon the use of a 100 percent (or some lesser percentage) closed-cycle re-circulating cooling water system compared to a conventional once-through cooling water system
  - d. through screen design intake flow velocity
  - e. any impingement and entrainment data that may have been collected based on the operation of the facility's CWIS, collected since the effective date of this NPDES permit
  - f. a detailed description of any changes in the operations of the CWIS, or changes in the type of technologies used at the CWIS such as screens or other technologies affecting the rates of impingement and/or entrainment of fish and shellfish
3. The permittee is required to operate and maintain the CWIS in a manner that minimizes impingement and entrainment levels. Documentation detailing the steps that have and are being taken to minimize the impingement and entrainment levels shall be maintained on site and made available upon request.
4. Nothing in this Permit authorizes take for the purposes of a facility compliance with the Endangered Species Act. Under the Endangered Species Act, take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct, of endangered or threatened species.

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

Section 316(b) of the Clean Water Act requires that facilities minimize adverse environmental impacts resulting from the operation of cooling water intake structures (CWIS) by using the "best technology available" (BTA). U.S. EPA has promulgated rules to implement these requirements under Phase I, Phase II, and Phase III of the rules; however, many facilities that operate intake structures do not fall into these categories and are therefore classified as miscellaneous facilities. For these miscellaneous facilities, a BTA determination must be made using BPJ.

The cooling water intake structure (CWIS) used by the permittee has been evaluated using available information. At this time, the Department has determined, using BPJ, that the cooling water intake structure represents the best technology available (BTA) to minimize adverse environmental impact in accordance with Section 316 (b) of the Federal Clean Water Act (33 U.S.C. section 1326) due to the actual through screen design and actual intake flow velocity being less than 0.5 ft/s and the design intake flow is less than 5% of the mean annual flow.

## 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<br>(lbs/1000 lbs product) | Monthly Average<br>(lbs/1000 lbs product) | Daily Maximum<br>(lbs/day) | Monthly Average<br>(lbs/day) |
| BOD <sub>5</sub> | 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<br>(lbs/1000 lbs product) | Monthly Average<br>(lbs/1000 lbs product) | Daily Maximum<br>(lbs/day) | Monthly Average<br>(lbs/day) |
| Pentachlorophenol | 0.003                                   | -                                         | 3.01                       | -                            |
| Trichlorophenol   | 0.0069                                  | -                                         | 6.91                       | -                            |

#### Total Allocations

| Pollutant         | Daily Maximum              |                              |
|-------------------|----------------------------|------------------------------|
|                   | Daily Maximum<br>(lbs/day) | Monthly Average<br>(lbs/day) |
| BOD <sub>5</sub>  | 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: **Easly Professional Hygiene**NPDES No.: **AL0074667 - DSN001**

11/15/2020

| $Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$ |                               |                  |        |                                                              |                                                                |                                                 | Enter Max Daily Discharge as reported by Applicant (C <sub>d</sub> ) Max | Enter Avg Daily Discharge as reported by Applicant (C <sub>d</sub> ) Avg | Partition Coefficient (Stream / Lake) |
|-------------------------------------------------------|-------------------------------|------------------|--------|--------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|
| ID                                                    | Pollutant                     | Carcinogen "yes" | Type   | Background from upstream source (C <sub>d1</sub> ) Daily Max | Background from upstream source (C <sub>d2</sub> ) Monthly Ave | Background Instream (C <sub>s</sub> ) Daily Max | Background Instream (C <sub>s</sub> ) Monthly Ave                        |                                                                          |                                       |
| 1                                                     | Antimony                      |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 2                                                     | Arsenic**                     | YES              | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | 0.574                                 |
| 3                                                     | Beryllium                     |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 4                                                     | Cadmium**                     |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | 0.236                                 |
| 5                                                     | Chromium / Chromium III**     |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | 0.210                                 |
| 6                                                     | Chromium / Chromium VI**      |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 7                                                     | Copper**                      |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | 0.388                                 |
| 8                                                     | Lead**                        |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | 0.205                                 |
| 9                                                     | Mercury**                     |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | 0.302                                 |
| 10                                                    | Nickel**                      |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | 0.505                                 |
| 11                                                    | Selenium                      |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 12                                                    | Silver                        |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 13                                                    | Thallium                      |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 14                                                    | Zinc**                        |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 10.7                                                                     | 0.330                                 |
| 15                                                    | Cyanide                       |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 5                                                                        | 5                                     |
| 16                                                    | Total Phenolic Compounds      |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 17                                                    | Hardness (As CaCO3)           |                  | Metals | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 18                                                    | Acrolein                      |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 19                                                    | Acrylonitrile*                | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 20                                                    | Aldrin                        | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 21                                                    | Benzene*                      | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 22                                                    | Bromoform*                    | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 23                                                    | Carbon Tetrachloride*         | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 24                                                    | Chlordane                     | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 25                                                    | Chlorobenzene                 |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 26                                                    | Chlorodibromo-Methane*        | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 27                                                    | Chloroethane                  |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 28                                                    | 2-Chloro-Ethylvinyl Ether     |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 29                                                    | Chloroform*                   | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 30                                                    | 4,4'-DDD                      | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 31                                                    | 4,4'-DDE                      | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 32                                                    | 4,4'-DDT                      | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 33                                                    | Dichlorobromo-Methane*        | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 34                                                    | 1,1-Dichloroethane            |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 35                                                    | 1,2-Dichloroethane*           | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 36                                                    | Trans-1,2-Dichloro-Ethylene   |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 37                                                    | 1,1-Dichloroethylene*         | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 38                                                    | 1,2-Dichloropropane           |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 39                                                    | 1,3-Dichloro-Propylene        |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 40                                                    | Dieldrin                      | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 41                                                    | Ethylbenzene                  |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 42                                                    | Methyl Bromide                |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 43                                                    | Methyl Chloride               |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 44                                                    | Methylene Chloride*           | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 45                                                    | 1,1,1,2,2-Tetrachloro-Ethane* | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 46                                                    | Tetrachloro-Ethylene*         | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 47                                                    | Toluene                       |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 48                                                    | Toxaphene                     |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 49                                                    | Tributyltin (TBT)             | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 50                                                    | 1,1,1-Trichloroethane         |                  | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 51                                                    | 1,1,2-Trichloroethane*        | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 52                                                    | Trichloroethylene*            | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 53                                                    | Vinyl Chloride*               | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 54                                                    | p-Chloro-H-Cresol             |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 55                                                    | 2-Chlorophenol                |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 56                                                    | 2,4-Dichlorophenol            |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 57                                                    | 2,4-Dimethylphenol            |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 58                                                    | 4,6-Dinitro-O-Cresol          |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 59                                                    | 2,4-Dinitrophenol             |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 60                                                    | 4,6-Dinitro-2-methylphenol    |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 61                                                    | Dioxin (2,3,7,8-TCDD)         | YES              | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 62                                                    | 2-Nitrophenol                 |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 63                                                    | 4-Nitrophenol                 |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 64                                                    | Pentachlorophenol*            | YES              | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 65                                                    | Phenol                        |                  | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 66                                                    | 2,4,6-Trichlorophenol*        | YES              | Acids  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 67                                                    | Acenaphthene                  |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 68                                                    | Acenaphthylene                |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 69                                                    | Anthracene                    |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 70                                                    | Benidine                      |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 71                                                    | Benzo(A)Anthracene*           | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 72                                                    | Benzo(A)Pyrene*               | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 73                                                    | 3,4-Benzo-Fluoranthene        |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 74                                                    | Benzo(G)Perylene              |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 75                                                    | Benzo(K)Fluoranthene          |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 76                                                    | Bis (2-Chloroethoxy) Methane  |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 77                                                    | Bis (2-Chloroethyl)-Ether*    | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 78                                                    | Bis (2-Chloroisopropyl) Ether |                  | Bases  | 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                                                                        | -                                     |
| 81                                                    | Butyl Benzyl Phthalate        |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 82                                                    | 2-Chloronaphthalene           |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 83                                                    | 4-Chlorophenyl Phenyl Ether   |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 84                                                    | Chrysene*                     | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 85                                                    | D-N-Butyl Phthalate           |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 86                                                    | D-N-Octyl Phthalate           |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 87                                                    | Dibenz(A,H)Anthracene*        | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 88                                                    | 1,2-Dichlorobenzene           |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 89                                                    | 1,3-Dichlorobenzene           |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 90                                                    | 1,4-Dichlorobenzene           |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 91                                                    | 3,3-Dichlorobenzidine*        | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 92                                                    | Diethyl Phthalate             |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 93                                                    | Dimethyl Phthalate            |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 94                                                    | 2,4-Dinitrotoluene*           | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 95                                                    | 2,6-Dinitrotoluene            |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 96                                                    | 1,2-Diphenylhydrazine         |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 97                                                    | Endosulfan (alpha)            | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 98                                                    | Endosulfan (beta)             | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 99                                                    | Endosulfan sulfate            | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 100                                                   | Endrin                        | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 101                                                   | Endrin Aldehyde               | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 102                                                   | Fluoranthene                  |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 103                                                   | Fluorene                      |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 104                                                   | Heptachlor                    | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 105                                                   | Heptachlor Epoxide            | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 106                                                   | Hexachlorobenzene*            | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 107                                                   | Hexachlorobutadiene*          | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 108                                                   | Hexachlorocyclohexan (alpha)  | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 109                                                   | Hexachlorocyclohexan (beta)   | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 110                                                   | Hexachlorocyclohexan (gamma)  | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 111                                                   | Hexachlorocyclopentadiene     |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 112                                                   | Hexachloroethane              |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 113                                                   | Indeno(1,2,3-CD)Pyrene*       | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 114                                                   | Isophorone                    |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 115                                                   | Naphthalene                   |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 116                                                   | Nitrobenzene                  |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 117                                                   | N-Nitrosodi-N-Propylamine*    | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 118                                                   | N-Nitrosodi-N-Methylamine*    | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 119                                                   | N-Nitrosodi-N-Phenylamine*    | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 120                                                   | PCB-1016                      | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 121                                                   | PCB-1221                      | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 122                                                   | PCB-1232                      | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 123                                                   | PCB-1242                      | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 124                                                   | PCB-1248                      | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 125                                                   | PCB-1254                      | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 126                                                   | PCB-1260                      | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 127                                                   | Phenanthrene                  |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 128                                                   | Pyrene                        |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |
| 129                                                   | 1,2,4-Trichlorobenzene        |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                                        | 0                                                                        | -                                     |

|                                                   |                                                                                                                                   |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 6.47                                              | Enter Q <sub>d</sub> = wastewater discharge flow from facility (MGD)                                                              |
| 10.0105716                                        | Q <sub>d2</sub> = wastewater discharge flow (cfs) (this value is calculated from the MGD)                                         |
| 0                                                 | Enter flow from upstream discharge Q <sub>d2</sub> = background stream flow in MGD above point of discharge                       |
| 0                                                 | Q <sub>d2</sub> = background stream flow from upstream source (cfs)                                                               |
| 8003.65                                           | Enter TQ10, Q <sub>s</sub> = background stream flow in cfs above point of discharge                                               |
| 4646.53                                           | Enter or estimated, TQ10, Q <sub>s</sub> = background stream flow in cfs above point of discharge (TQ10 estimated at 75% of TQ10) |
| 52014.56                                          | Enter Mean Annual Flow, Q <sub>s</sub> = background stream flow in cfs above point of discharge                                   |
| 12552.49                                          | Enter TQ2, Q <sub>s</sub> = background stream flow in cfs above point of discharge (For LVP class streams)                        |
| Enter In Lake                                     | Enter C <sub>s</sub> = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)      |
| Q <sub>d</sub> + Q <sub>d2</sub> + Q <sub>s</sub> | Q <sub>r</sub> = resultant in-stream flow, after discharge                                                                        |
| Calculated on other                               | C <sub>r</sub> = 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)                   |
| 7.80 s.u.                                         | Enter Background pH above point of discharge                                                                                      |
| YES                                               | Enter: Is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)  |

\*\* Using Partition Coefficients

September 15, 2020

| Facility Name: Exsity Professional Hygiene      |                               |     |                   |                                                          |                                                                              |                                                |                                            |                              |     |                                                            |                                                                              |                                                |                                            |                              |     |                                                |                                            |                              |     |
|-------------------------------------------------|-------------------------------|-----|-------------------|----------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------|------------------------------|-----|------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------|------------------------------|-----|------------------------------------------------|--------------------------------------------|------------------------------|-----|
| NPDES No.: AL0074667 - DS0001                   |                               |     |                   |                                                          |                                                                              |                                                |                                            |                              |     |                                                            |                                                                              |                                                |                                            |                              |     |                                                |                                            |                              |     |
| Freshwater PWS classification:                  |                               |     |                   |                                                          |                                                                              |                                                |                                            |                              |     |                                                            |                                                                              |                                                |                                            |                              |     |                                                |                                            |                              |     |
| Freshwater Acute (µg/l) Q <sub>a</sub> = 1Q10   |                               |     |                   |                                                          |                                                                              |                                                |                                            |                              |     |                                                            |                                                                              |                                                |                                            |                              |     |                                                |                                            |                              |     |
| Freshwater Chronic (µg/l) Q <sub>a</sub> = 7Q10 |                               |     |                   |                                                          |                                                                              |                                                |                                            |                              |     |                                                            |                                                                              |                                                |                                            |                              |     |                                                |                                            |                              |     |
| Human Health Consumption Fish & Water (µg/l)    |                               |     |                   |                                                          |                                                                              |                                                |                                            |                              |     |                                                            |                                                                              |                                                |                                            |                              |     |                                                |                                            |                              |     |
| Human Health Consumption Fish only (µg/l)       |                               |     |                   |                                                          |                                                                              |                                                |                                            |                              |     |                                                            |                                                                              |                                                |                                            |                              |     |                                                |                                            |                              |     |
| ID                                              | Pollutant                     | RP? | Carcinogen<br>yes | Background<br>from upstream<br>source (Cd2)<br>Daily Max | Max Daily<br>Discharge as<br>reported by<br>Applicant<br>(C <sub>max</sub> ) | Water<br>Quality<br>Criteria (C <sub>1</sub> ) | Draft Permit<br>Limit (C <sub>perm</sub> ) | 20% of Draft<br>Permit Limit | RP? | Background<br>from upstream<br>source (Cd2)<br>Monthly Ave | Avg Daily<br>Discharge as<br>reported by<br>Applicant<br>(C <sub>avg</sub> ) | Water<br>Quality<br>Criteria (C <sub>1</sub> ) | Draft Permit<br>Limit (C <sub>perm</sub> ) | 20% of Draft<br>Permit Limit | RP? | Water<br>Quality<br>Criteria (C <sub>1</sub> ) | Draft Permit<br>Limit (C <sub>perm</sub> ) | 20% of Draft<br>Permit Limit | RP? |
| 1                                               | Antimony                      |     |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | 5.52E+00                                       | 4.42E+03                                   | 8.83E+02                     | No  | 3.73E+02                                       | 2.96E+03                                   | 5.98E+04                     | No  |
| 2                                               | Arsenic                       |     | YES               | 0                                                        | 0                                                                            | 562.334                                        | 275531.679                                 | 55105.33576                  | No  | 0                                                          | 0                                                                            | 1.20E-01                                       | 6.28E+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                                                                            | 3.575                                          | 1849.034                                   | 369.8068621                  | No  | 0                                                          | 0                                                                            | 1.80E-01                                       | 1444.354                                   | 289.2707366                  | No  | -                                              | -                                          | -                            | -   |
| 5                                               | Chromium/ Chromium III        |     |                   | 0                                                        | 0                                                                            | 1537.913                                       | 715379.115                                 | 143075.8229                  | No  | 0                                                          | 0                                                                            | 200.051                                        | 180144.680                                 | 32028.93608                  | No  | -                                              | -                                          | -                            | -   |
| 6                                               | Chromium/ Chromium VI         |     |                   | 0                                                        | 0                                                                            | 16.000                                         | 7442.507                                   | 1488.519375                  | No  | 0                                                          | 0                                                                            | 11.000                                         | 8805.718                                   | 1761.14351                   | No  | -                                              | -                                          | -                            | -   |
| 7                                               | Copper                        |     |                   | 0                                                        | 0                                                                            | 18.026                                         | 8305.191                                   | 1677.038125                  | No  | 0                                                          | 0                                                                            | 12.766                                         | 10219.000                                  | 2043.818046                  | No  | -                                              | -                                          | -                            | -   |
| 8                                               | Lead                          |     |                   | 0                                                        | 0                                                                            | 140.291                                        | 68848.985                                  | 13600.70706                  | No  | 0                                                          | 0                                                                            | 5.701                                          | 4563.596                                   | 912.7116806                  | No  | -                                              | -                                          | -                            | -   |
| 9                                               | Mercury                       |     |                   | 0                                                        | 0                                                                            | 2.400                                          | 1116.390                                   | 223.2770663                  | No  | 0                                                          | 0                                                                            | 0.012                                          | 9.606                                      | 1.921247465                  | No  | -                                              | -                                          | -                            | -   |
| 10                                              | Nickel                        |     |                   | 0                                                        | 0                                                                            | 515.824                                        | 239402.046                                 | 47988.40314                  | No  | 0                                                          | 0                                                                            | 57.292                                         | 45863.506                                  | 9172.701549                  | No  | -                                              | -                                          | -                            | -   |
| 11                                              | Selenium                      |     |                   | 0                                                        | 0                                                                            | 20.000                                         | 9303.246                                   | 1860.649219                  | No  | 0                                                          | 0                                                                            | 5.000                                          | 4002.599                                   | 800.5197773                  | 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                                  | 18361.70907                  | No  | 0                                                          | 10.7                                                                         | 198.983                                        | 159290.050                                 | 31854.00993                  | No  | -                                              | -                                          | -                            | -   |
| 15                                              | Cyanide                       |     |                   | 0                                                        | 5                                                                            | 22.000                                         | 10233.571                                  | 2046.714141                  | No  | 0                                                          | 5                                                                            | 5.200                                          | 4162.703                                   | 832.5405664                  | 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                                   | 223.2770663                  | No  | 0                                                          | 0                                                                            | 0.0043                                         | 3.442                                      | 0.688447008                  | No  | -                                              | -                                          | -                            | -   |
| 25                                              | Chlorobenzene                 | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 26                                              | Chlorodibromo-Methane         | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 27                                              | Chloroethane                  | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 28                                              | 2-Chloro-Ethylvinyl Ether     | YES |                   | 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                                                                            | 0.001                                          | 0.801                                      | 0.160103955                  | No  | -                                              | -                                          | -                            | -   |
| 33                                              | Dichlorodibromo-Methane       | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 34                                              | 1,1-Dichloroethane            | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 35                                              | 1,2-Dichloroethane            | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 36                                              | Trans-1, 2-Dichloro-Ethylene  | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 37                                              | 1,1-Dichloroethylene          | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 38                                              | 1,2-Dichloropropane           | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 39                                              | 1,3-Dichloro-Propylene        | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 40                                              | Dieldrin                      | YES |                   | 0                                                        | 0                                                                            | 0.240                                          | 111.639                                    | 22.32770663                  | No  | 0                                                          | 0                                                                            | 0.056                                          | 44.829                                     | 8.965621505                  | No  | -                                              | -                                          | -                            | -   |
| 41                                              | Ethylbenzene                  | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 42                                              | Methyl Bromide                | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 43                                              | Methyl Chloride               | YES |                   | 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-Ethane            | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 47                                              | Toluene                       | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 48                                              | Toxaphene                     | YES |                   | 0                                                        | 0                                                                            | 0.730                                          | 339.568                                    | 67.9136865                   | No  | 0                                                          | 0                                                                            | 0.0002                                         | 0.180                                      | 0.032020791                  | No  | -                                              | -                                          | -                            | -   |
| 49                                              | Trichlorin (TBT)              | YES |                   | 0                                                        | 0                                                                            | 0.480                                          | 213.975                                    | 42.79493204                  | No  | 0                                                          | 0                                                                            | 0.072                                          | 57.637                                     | 11.52748479                  | No  | -                                              | -                                          | -                            | -   |
| 50                                              | 1, 1, 1-Trichloroethane       | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 51                                              | 1, 1, 2-Trichloroethane       | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 52                                              | Trichloroethylene             | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 53                                              | Vinyl Chloride                | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 54                                              | P-Chloro-M-Cresol             | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 55                                              | 2-Chlorophenol                | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 56                                              | 2,4-Dichlorophenol            | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 57                                              | 2,4-Dimethylphenol            | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 58                                              | 4,6-Dinitro-O-Cresol          | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 59                                              | 2,4-Dinitrophenol             | YES |                   | 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                 | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 63                                              | 4-Nitrophenol                 | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 64                                              | Pentachlorophenol             | YES |                   | 0                                                        | 0                                                                            | 6.723                                          | 4057.760                                   | 811.552009                   | No  | 0                                                          | 0                                                                            | 6.693                                          | 5357.546                                   | 1071.50912                   | No  | -                                              | -                                          | -                            | -   |
| 65                                              | Phenol                        | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 66                                              | 2, 4, 6-Trichlorophenol       | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 67                                              | Acenaphthene                  | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 68                                              | Acenaphthylene                | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 69                                              | Anthracene                    | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 70                                              | Benidine                      | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 71                                              | Benzo(A)Anthracene            | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 72                                              | Benzo(A)Pyrene                | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 73                                              | Benzo(b)fluoranthene          | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 74                                              | Benzo(GH)Perylene             | YES |                   | 0                                                        | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                          | 0                                                                            | -                                              | -                                          | -                            | -   | -                                              | -                                          | -                            | -   |
| 75                                              | Benzo(K)Fluoranthene          | YES |                   |                                                          |                                                                              |                                                |                                            |                              |     |                                                            |                                                                              |                                                |                                            |                              |     |                                                |                                            |                              |     |



| $Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$ |                               |                  |        |                                                              |                                                                |                                                 |                                                   |                                                 |                                                   | Enter Max Daily Discharge as reported by Applicant (C <sub>d</sub> ) Max (C <sub>d</sub> ) Ave | Enter Avg Daily Discharge as reported by Applicant (C <sub>d</sub> ) Ave | Partition Coefficient (Stream / Lake) |
|-------------------------------------------------------|-------------------------------|------------------|--------|--------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|-------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|
| ID                                                    | Pollutant                     | Carcinogen "Yes" | Type   | Background from upstream source (C <sub>d1</sub> ) Daily Max | Background from upstream source (C <sub>d2</sub> ) Monthly Ave | Background Instream (C <sub>s</sub> ) Daily Max | Background Instream (C <sub>s</sub> ) Monthly Ave | Background Instream (C <sub>s</sub> ) Daily Max | Background Instream (C <sub>s</sub> ) Monthly Ave | Enter Max Daily Discharge as reported by Applicant (C <sub>d</sub> ) Max (C <sub>d</sub> ) Ave | Enter Avg Daily Discharge as reported by Applicant (C <sub>d</sub> ) 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                                                 | 0                                                                                              | 0                                                                        | 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                                                 | 12.1                                                                                           | 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                                                    | Benaze*                       | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                 | 0                                               | 0                                                 | 0                                                                                              | 0                                                                        | -                                     |
| 22                                                    | Bromofom*                     | 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                                                    | 1,1,1,2-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                                                    | Triphenylene                  | YES              | VOC    | 0                                                            | 0                                                              | 0                                               | 0                                                 | 0                                               | 0                                                 | 0                                                                                              | 0                                                                        | -                                     |
| 49                                                    | Triphenylene (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                                                    | 1,1,1,2-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                                                    | 4-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)Pyrene*               | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                 | 0                                               | 0                                                 | 0                                                                                              | 0                                                                        | -                                     |
| 72                                                    | Benzo(b)Fluoranthene          |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                 | 0                                               | 0                                                 | 0                                                                                              | 0                                                                        | -                                     |
| 73                                                    | Benzo(k)Fluoranthene          |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                 | 0                                               | 0                                                 | 0                                                                                              | 0                                                                        | -                                     |
| 74                                                    | Benzo(g,h,i)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 Alderhyde              | 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 Epoxide            | 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                                                   | Hexachlorocyclopentadiene     |                  | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                 | 0                                               | 0                                                 | 0                                                                                              | 0                                                                        | -                                     |
| 113                                                   | Indeno(1,2,3-CD)Pyrene*       | YES              | Bases  | 0                                                            | 0                                                              | 0                                               | 0                                                 | 0                                               | 0                                                 | 0                                                                                              | 0                                                                        | -                                     |
| 114                                                   | Isophorone                    |                  | 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-1016                      | 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 $Q_d$ = wastewater discharge flow from facility (MGD)                                                                    |
| 2.40826194               | $Q_{d2}$ = 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 TQ10, $Q_s$ = background stream flow in cfs above point of discharge                                                     |
| 0                        | Enter or estimated, TQ10, $Q_s$ = background stream flow in cfs above point of discharge (TQ10 estimated at 75% of TQ10)       |
| 14.67                    | Enter Mean Annual Flow, $Q_s$ = background stream flow in cfs above point of discharge                                         |
| 0                        | Enter TQ2, $Q_s$ = background stream flow in cfs above point of discharge (For LWF class streams)                              |
| Enter to Left            | Enter $C_s$ = background in-stream pollutant concentration in $\mu\text{g/l}$ (assuming this is zero "0" unless there is data) |
| $Q_s + Q_{d2} \cdot Q_s$ | $Q_s$ = resultant in-stream flow, after discharge                                                                              |
| Calculated on other      | $Q_s$ = resultant in-stream pollutant concentration in $\mu\text{g/l}$ 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 $\pm$ 0.1           | Enter Background pH above point of discharge                                                                                   |
| YES                      | Is discharge to a stream? 'YES' Other option would be to a Lake. This changes the partition coefficients for the metals)       |

| Facility Name: Essity Professional Hygiene |                             |     |                   |                                                                      |                                                                              |                                                |                                            |                              |     |                                                                        |                                                                              |                                                |                                            |                              |                                           |                                             |                                            |                              |     |
|--------------------------------------------|-----------------------------|-----|-------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------|------------------------------|-----|------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------|------------------------------|-------------------------------------------|---------------------------------------------|--------------------------------------------|------------------------------|-----|
| NPDES No.: AL0074867 - DSN02A              |                             |     |                   |                                                                      |                                                                              |                                                |                                            |                              |     |                                                                        |                                                                              |                                                |                                            |                              |                                           |                                             |                                            |                              |     |
| Freshwater F&W classification              |                             |     |                   |                                                                      | Freshwater Acute (µg/l) C <sub>a</sub> = 10:10                               |                                                |                                            |                              |     | Freshwater Chronic (µg/l) C <sub>c</sub> = 70:10                       |                                                                              |                                                |                                            |                              | Human Health Consumption Fish only (µg/l) |                                             |                                            |                              |     |
| ID                                         | Pollutant                   | RP7 | Carcinogen<br>yes | Background<br>from upstream<br>source (C <sub>u</sub> )<br>Daily Max | Max Daily<br>Discharge as<br>reported by<br>Applicant<br>(C <sub>app</sub> ) | Water<br>Quality<br>Criteria (C <sub>a</sub> ) | Draft Permit<br>Limit (C <sub>perm</sub> ) | 20% of Draft<br>Permit Limit | RP7 | Background<br>from upstream<br>source (C <sub>u</sub> )<br>Monthly Avg | Avg Daily<br>Discharge as<br>reported by<br>Applicant<br>(C <sub>app</sub> ) | Water<br>Quality<br>Criteria (C <sub>c</sub> ) | Draft Permit<br>Limit (C <sub>perm</sub> ) | 20% of Draft<br>Permit Limit | RP7                                       | Water Quality<br>Criteria (C <sub>a</sub> ) | Draft Permit<br>Limit (C <sub>perm</sub> ) | 20% of Draft<br>Permit Limit | RP7 |
| 1                                          | Antimony                    |     |                   | 0                                                                    | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                                      | 0                                                                            | -                                              | -                                          | -                            | -                                         | 3.73E+02                                    | 3.73E+02                                   | 7.47E+01                     | No  |
| 2                                          | Arsenic                     |     | YES               | 0                                                                    | 0                                                                            | 502.334                                        | 502.334                                    | 118.467                      | No  | 0                                                                      | 0                                                                            | 201.324                                        | 201.324                                    | 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                                   | 307.563                      | 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                                                                            | 12,765                                         | 12,765                                     | 2,553                        | No                                        | -                                           | -                                          | -                            | -   |
| 8                                          | Lead                        |     |                   | 0                                                                    | 0                                                                            | 140.261                                        | 140.261                                    | 28.258                       | No  | 0                                                                      | 0                                                                            | 8.701                                          | 8.701                                      | 1.740                        | 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                                                                            | 57.282                                         | 57.282                                     | 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  | 12.1                                                                   | 12.1                                                                         | 190.663                                        | 190.663                                    | 39.797                       | No                                        | 1.40E+04                                    | 1.40E+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 Phosphoric 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                                                                            | -                                              | -                                          | -                            | -                                         | 2.04E-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                                         | Bromoform                   |     | YES               | 0                                                                    | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                                      | 0                                                                            | -                                              | -                                          | -                            | -                                         | 7.86E+01                                    | 5.59E+02                                   | 1.12E+02                     | No  |
| 23                                         | Carbon Tetrachloride        |     | YES               | 0                                                                    | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                                      | 0                                                                            | -                                              | -                                          | -                            | -                                         | 9.57E-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                                        | 4.75E-04                                    | 3.35E-03                                   | 6.71E-04                     | No  |
| 25                                         | Chlorobenzene               |     |                   | 0                                                                    | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                                      | 0                                                                            | -                                              | -                                          | -                            | -                                         | 9.08E+02                                    | 9.08E+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                                                                            | -                                              | -                                          | -                            | -                                         | 1.25E-04                                    | 9.08E-04                                   | 1.82E-04                     | No  |
| 32                                         | 4,4' - DDT                  |     | YES               | 0                                                                    | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                                      | 0                                                                            | -                                              | -                                          | -                            | -                                         | 1.25E-04                                    | 9.08E-04                                   | 1.82E-04                     | No  |
| 33                                         | Dichlorobromo-Methane       |     | YES               | 0                                                                    | 0                                                                            | 1,100                                          | 1,100                                      | 0.220                        | No  | 0                                                                      | 0                                                                            | 0.001                                          | 0.001                                      | 0.000                        | No                                        | 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                                                                            | -                                              | -                                          | -                            | -                                         | 5.91E+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                                                                            | -                                              | -                                          | -                            | -                                         | 8.46E+00                                    | 6.49E+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-05                                    | 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                                                                            | -                                              | -                                          | -                            | -                                         | 3.46E+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                                                                            | -                                              | -                                          | -                            | -                                         | 1.02E+00                                    | 1.38E+01                                   | 2.72E+00                     | No  |
| 47                                         | Toluene                     |     |                   | 0                                                                    | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                                      | 0                                                                            | -                                              | -                                          | -                            | -                                         | 8.72E+03                                    | 8.72E+03                                   | 1.74E+03                     | No  |
| 48                                         | Toxaphene                   |     | YES               | 0                                                                    | 0                                                                            | 0.730                                          | 0.730                                      | 0.146                        | No  | 0                                                                      | 0                                                                            | 0.0002                                         | 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+00                                    | 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                                         | 2,4-Dimethylphenol          |     |                   | 0                                                                    | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                                      | 0                                                                            | -                                              | -                                          | -                            | -                                         | 4.98E+02                                    | 4.98E+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                                                                            | -                                              | -                                          | -                            | -                                         | 1.17E+03                                    | 2.35E+02                                   | 4.70E+01                     | No  |
| 61                                         | Dioxin (2,3,7,8-TCDD)       |     | YES               | 0                                                                    | 0                                                                            | -                                              | -                                          | -                            | -   | 0                                                                      | 0                                                                            | -                                              | -                                          | -                            | -                                         | 2.87E-06                                    | 1.89E-07                                   | 3.78E-06                     | 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+00                                    | 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                                                                            |                                                |                                            |                              |     |                                                                        |                                                                              |                                                |                                            |                              |                                           |                                             |                                            |                              |     |

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

Site Visit Completed? ☒ Yes ☐ No

Approved TMDL?

☐ ☒

Date of Site Visit 8/29/2019

Approval Date of TMDL

Waterbody Impaired? ☒ Yes ☐ No

Antidegradation ☐ Yes ☒ No

Waterbody Tier Level Tier I

Use Support Category 5

Other Point Sources? ☐ ☒

## Permit Information

Permit Number AL0074667

Permit Status Active

Type of Discharger

- ☐ Municipal  
☐ Industrial  
☐ Semipublic/Private  
☐ Mining

Sources Included in Model

## 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 |
| Season                 |                         |      | Season  |     |                  |     | Season  |     |
| From                   |                         |      | From    |     |                  |     | From    |     |
| Through                |                         |      | Through |     |                  |     | Through |     |
| CBOD5                  | 117.9                   | mg/L | CBOD5   |     | TP               |     | TP      |     |
| NH3-N                  |                         |      | NH3-N   |     | TN               |     | TN      |     |
| TKN                    |                         |      | TKN     |     | TSS              |     | TSS     |     |
| D.O.                   |                         | mg/L | D.O.    |     |                  |     |         |     |

Annual/Summer NH3-N toxicity based?:   
 Winter NH3-N toxicity based?:

| "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  | sq mi     | Method Used to Calculate      |
|-------------------------|----------------|-----------|-------------------------------|
| Estimated               | 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

Discharge Design Flow 6.77 MGD

## 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

Seasonal? ☐ Yes ☒ No

If not seasonal, only the summer  
sections will be used

## Pollutant Category

Whole Effluent Toxicity (WET) ☒ Thermal ☐ Pathogens ☐

# 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.



**Jackson, Scott A**

---

**Subject:** RE: Corrected Form 187

**From:** RUSS Nigel <Nigel.Russ@essity.com>  
**Sent:** Wednesday, September 23, 2026 9:58 AM  
**To:** Jackson, Scott A <scott.jackson@adem.alabama.gov>  
**Cc:** BARNES Alicia <Alicia.Barnes1@essity.com>; Kim, Victoria P <victoria.kim@adem.alabama.gov>  
**Subject:** Corrected Form 187

Scott,

Please see the attached form 187 with corrected CWIS info.

Thanks!

Nigel Russ  
Environmental Partner  
Technical Services Department

P: (256) 815-8687 | M: (256) 275-1862 | E: [nigel.russ@essity.com](mailto:nigel.russ@essity.com)



ESSITY INTERNAL

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**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: 35816  
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) 370-8119 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: Rene Rios, Vice President, Product Supply

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> |
|----------------------|----------------------|-----------------------|-----------------------|
| NA                   |                      |                       |                       |
|                      |                      |                       |                       |
|                      |                      |                       |                       |
|                      |                      |                       |                       |
|                      |                      |                       |                       |



## 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

- |                                                                           |                                                                               |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <input type="checkbox"/> Aluminum Forming                                 | <input type="checkbox"/> Metal Molding and Casting                            |
| <input type="checkbox"/> Asbestos Manufacturing                           | <input type="checkbox"/> Metal Products                                       |
| <input type="checkbox"/> Battery Manufacturing                            | <input type="checkbox"/> Nonferrous Metals Forming                            |
| <input type="checkbox"/> Can Making                                       | <input type="checkbox"/> Nonferrous Metals Manufacturing                      |
| <input type="checkbox"/> Canned and Preserved Fruit and Vegetables        | <input type="checkbox"/> Oil and Gas Extraction                               |
| <input type="checkbox"/> Canned and Preserved Seafood                     | <input type="checkbox"/> Organic Chemicals Manufacturing                      |
| <input type="checkbox"/> Cement Manufacturing                             | <input type="checkbox"/> Paint and Ink Formulating                            |
| <input type="checkbox"/> Centralized Waste Treatment                      | <input type="checkbox"/> Paving and Roofing Manufacturing                     |
| <input type="checkbox"/> Carbon Black                                     | <input type="checkbox"/> Pesticides Manufacturing                             |
| <input type="checkbox"/> Coal Mining                                      | <input type="checkbox"/> Petroleum Refining                                   |
| <input type="checkbox"/> Coil Coating                                     | <input type="checkbox"/> Phosphate Manufacturing                              |
| <input type="checkbox"/> Copper Forming                                   | <input type="checkbox"/> Photographic                                         |
| <input type="checkbox"/> Electric and Electronic Components Manufacturing | <input type="checkbox"/> Pharmaceutical                                       |
| <input type="checkbox"/> Electroplating                                   | <input type="checkbox"/> Plastic & Synthetic Materials                        |
| <input type="checkbox"/> Explosives Manufacturing                         | <input type="checkbox"/> Plastics Processing Manufacturing                    |
| <input type="checkbox"/> Feedlots                                         | <input type="checkbox"/> Porcelain Enamel                                     |
| <input type="checkbox"/> Ferroalloy Manufacturing                         | <input checked="" type="checkbox"/> Pulp, Paper, and Fiberboard Manufacturing |
| <input type="checkbox"/> Fertilizer Manufacturing                         | <input type="checkbox"/> Rubber                                               |
| <input type="checkbox"/> Foundries (Metal Molding and Casting)            | <input type="checkbox"/> Soap and Detergent Manufacturing                     |
| <input type="checkbox"/> Glass Manufacturing                              | <input type="checkbox"/> Steam and Electric                                   |
| <input type="checkbox"/> Grain Mills                                      | <input type="checkbox"/> Sugar Processing                                     |
| <input type="checkbox"/> Gum and Wood Chemicals Manufacturing             | <input type="checkbox"/> Textile Mills                                        |
| <input type="checkbox"/> Inorganic Chemicals                              | <input type="checkbox"/> Timber Products                                      |
| <input type="checkbox"/> Iron and Steel                                   | <input type="checkbox"/> Transportation Equipment Cleaning                    |
| <input type="checkbox"/> Leather Tanning and Finishing                    | <input type="checkbox"/> Waste Combustion                                     |
| <input type="checkbox"/> Metal Finishing                                  | <input type="checkbox"/> Other (specify) _____                                |
| <input type="checkbox"/> 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<br>Outfall No. | Name of Other Permittee/Facility | NPDES<br>Permit No. | Where is sample collected<br>by Applicant? |
|----------------------------|----------------------------------|---------------------|--------------------------------------------|
| NA                         |                                  |                     |                                            |
|                            |                                  |                     |                                            |
|                            |                                  |                     |                                            |

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

|                 |                    |                                         |                             |                              |
|-----------------|--------------------|-----------------------------------------|-----------------------------|------------------------------|
| <b>Current:</b> | Flow Metering      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
|                 | Sampling Equipment | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| <b>Planned:</b> | Flow Metering      | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
|                 | Sampling Equipment | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input type="checkbox"/> 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 attachment B of the permit application package.

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 attached SDSs located in attachment B 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: 0.5 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: 34.73778

Longitude: -87.83278

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? 14.2 %

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? .....                                                                                                           | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Will the project be a source of new air emissions? .....                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Does the project involve dredging and/or filling of a wetland area or water way? .....                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes, has the Corps of Engineers (COE) permit been received? .....                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> |
| COE Project No. ....                                                                                                                                          |                          |                          |
| 4. Does the project involve wetlands and/or submersed grassbeds? .....                                                                                        | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Are oyster reefs located near the project site? .....                                                                                                      | <input type="checkbox"/> | <input type="checkbox"/> |
| 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)? .....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Does the project involve mitigation of shoreline or coastal area erosion? .....                                                                            | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Does the project involve construction on beaches or dune areas? .....                                                                                      | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Will the project interfere with public access to coastal waters? .....                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Does the project lie within the 100-year floodplain? .....                                                                                                | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Does the project involve the registration, sale, use, or application of pesticides? .....                                                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 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)? ..... | <input type="checkbox"/> | <input type="checkbox"/> |
| If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained? .....                                          | <input type="checkbox"/> | <input type="checkbox"/> |

## 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.

1. 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.
2. 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                     | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| DSN02A1     | Mulberry Creek (to Tennessee River) | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| DSN002      | Mulberry Creek (to Tennessee River) | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| DSN003      | Mulberry Creek (to Tennessee River) | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
|             |                                     | <input type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> Yes | <input type="checkbox"/> 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: 9/23/26

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.

**Jackson, Scott A**

---

**Subject:** RE: Corrected Form 187

**From:** RUSS Nigel <Nigel.Russ@essity.com>

**Sent:** Monday, September 28, 2026 10:31 AM

**To:** Jackson, Scott A <scott.jackson@adem.alabama.gov>; BARNES Alicia <Alicia.Barnes1@essity.com>

**Cc:** Kim, Victoria P <victoria.kim@adem.alabama.gov>

**Subject:** Re: Corrected Form 187

You don't often get email from [nigel.russ@essity.com](mailto:nigel.russ@essity.com). [Learn why this is important](#)

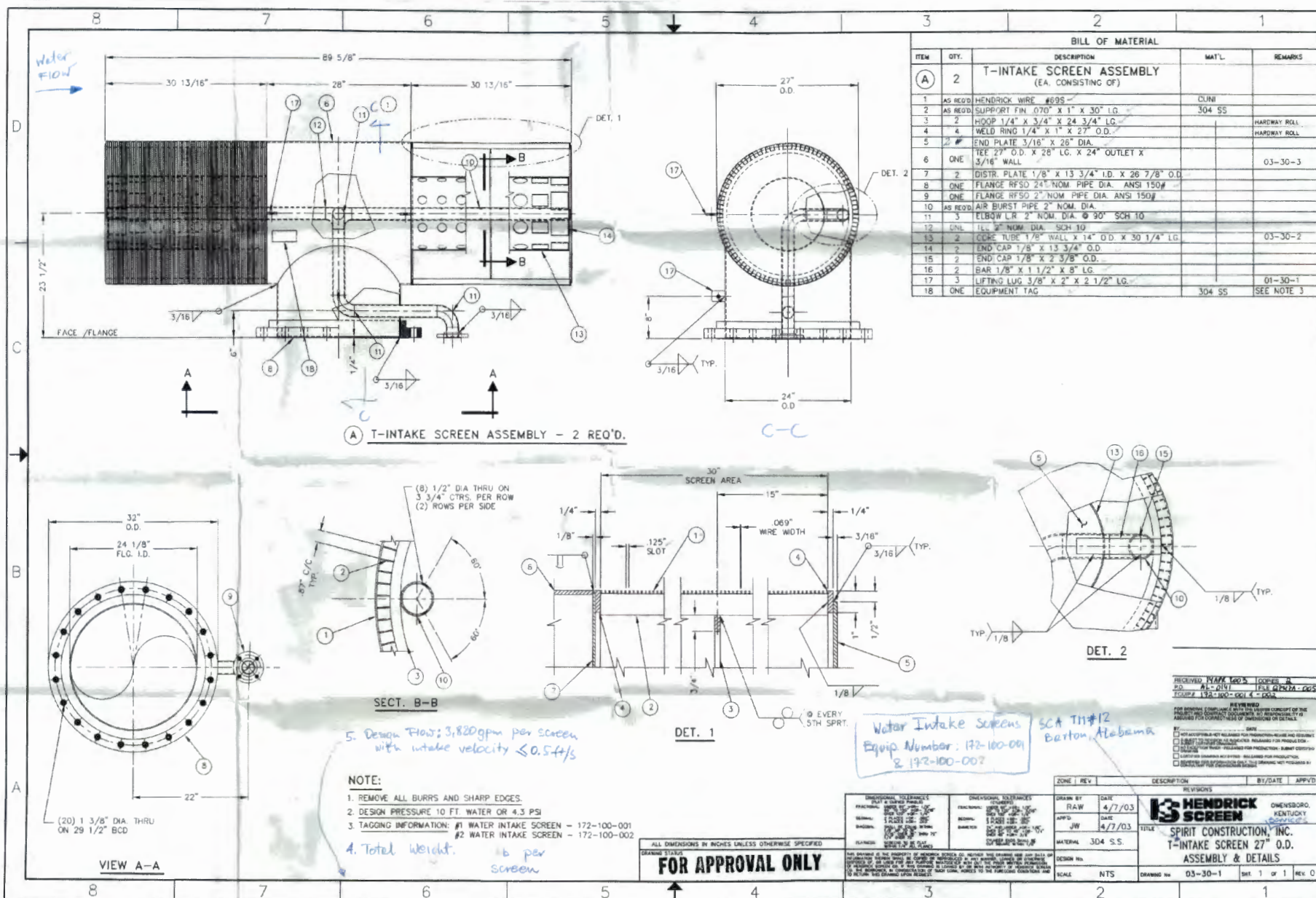
Scott,

I have attached intake structure drawings with the flow design. We have not changed anything with this structure; intake flow velocity remains <5 ft/s and intake flow is still less than 5% of annual mean flow.

I contacted ECT about correcting our narrative in sections 1.3 and 1.3.1. I will forward that as soon as I get it back from them if that works for you.

Thank you!

---



| BILL OF MATERIAL |          |                                                  |        |              |
|------------------|----------|--------------------------------------------------|--------|--------------|
| ITEM             | QTY.     | DESCRIPTION                                      | MAT'L  | REMARKS      |
| (A) 2            |          | T-INTAKE SCREEN ASSEMBLY<br>(EA. CONSISTING OF)  |        |              |
| 1                | AS REQ'D | HENDRICK WIRE #89S                               | CUNI   |              |
| 2                | AS REQ'D | SUPPORT FIN. 0.70" X 1" X 30" LG.                | 304 SS |              |
| 3                | 2        | HOOP 1/4" X 3/4" X 24 3/4" LG.                   |        | HARDWAY ROLL |
| 4                | 4        | WELD RING 1/4" X 1" X 27" O.D.                   |        | HARDWAY ROLL |
| 5                | 2        | END PLATE 3/16" X 26" DIA.                       |        |              |
| 6                | ONE      | TEE 27" O.D. X 26" LG. X 24" OUTLET X 3/16" WALL |        | 03-30-3      |
| 7                | 2        | DISTR. PLATE 1/8" X 13 3/4" I.D. X 26 7/8" O.D.  |        |              |
| 8                | ONE      | FLANGE RFSO 24" NOM PIPE DIA. ANSI 150#          |        |              |
| 9                | ONE      | FLANGE RFSO 2" NOM PIPE DIA. ANSI 150#           |        |              |
| 10               | AS REQ'D | AIR BURST PIPE 2" NOM. DIA.                      |        |              |
| 11               | 3        | ELBOW L/R 2" NOM. DIA. @ 90° SCH 10              |        |              |
| 12               | ONE      | TEL. 2" NOM. DIA. SCH 10                         |        |              |
| 13               | 2        | COCK TUBE 1/8" WALL X 14" O.D. X 30 1/4" LG.     |        | 03-30-2      |
| 14               | 2        | END CAP 1/8" X 13 3/4" O.D.                      |        |              |
| 15               | 2        | END CAP 1/8" X 2 3/8" O.D.                       |        |              |
| 16               | 2        | BAR 1/8" X 1 1/2" X 8" LG.                       |        |              |
| 17               | 3        | LIFTING LUG 3/8" X 2" X 2 1/2" LG.               |        | 01-30-1      |
| 18               | ONE      | EQUIPMENT TAG                                    | 304 SS | SEE NOTE 3   |

(A) T-INTAKE SCREEN ASSEMBLY - 2 REQ'D.

SECT. B-B

DET. 1

DET. 2

5. Design Flow: 3,820 gpm per screen with intake velocity  $\leq 0.54$  ft/s

NOTE:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. DESIGN PRESSURE 10 FT. WATER OR 4.3 PSI
3. TAGGING INFORMATION: #1 WATER INTAKE SCREEN - 172-100-001  
#2 WATER INTAKE SCREEN - 172-100-002
4. Total Weight: 6 lb per screen

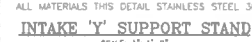
FOR APPROVAL ONLY

Water Intake Screens  
Equip Number: 172-100-001  
2 172-100-002

SCA TH#12  
Barton, Alabama

| REVISIONS  |     | DATE     | BY/DATE | APPROV |
|------------|-----|----------|---------|--------|
| 1          | RAW | 4/7/03   |         |        |
| 2          | JW  | 4/7/03   |         |        |
| MATERIAL   |     | 304 S.S. |         |        |
| SCALE      |     | NTS      |         |        |
| DRAWING No |     | 03-30-1  |         |        |
| SHEET      |     | 1 of 1   |         |        |
| REV. 0     |     |          |         |        |

**HENDRICK SCREEN**  
OWENSBORO, KENTUCKY  
SPIRIT CONSTRUCTION, INC.  
T-INTAKE SCREEN 27" O.D.  
ASSEMBLY & DETAILS



**AS BUILTS 5/20/04**

 **ICR**  
ENGINEERS, INC.

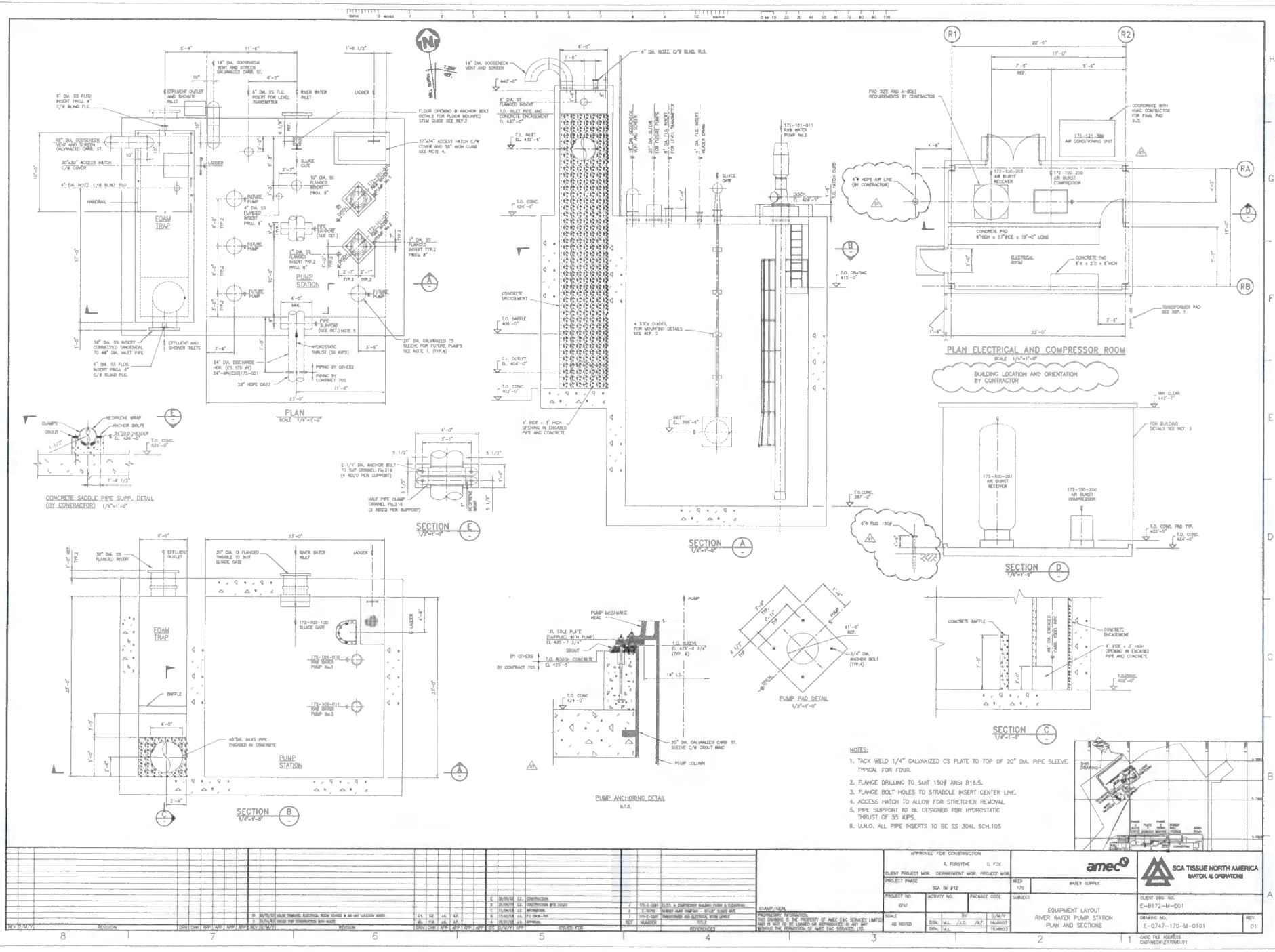
Analyst, Commerce, Resident  
6130 Presidential Court  
Chattanooga, TN 37416  
PH: (423) 893-8061  
FAX: (423) 893-8063  
[clients@icr-engineers.com](mailto:clients@icr-engineers.com) or [www.icr-engineers.com](http://www.icr-engineers.com)

SOUTHERN MARINE CONSTRUCTION

INTAKE & OUTFALL LINE  
DETAILS AND SECTIONS  
SCA TISSUE PLANT  
TUSCUMBIA, ALABAMA

I/O-2





1. TACK WELD 1/4" GALVANIZED CS PLATE TO TOP OF 20" DIA. PIPE SLEEVE. TYPICAL FOR FOUR.  
 2. FLANGE DRILLING TO SUIT 150# ANSI B16.5.  
 3. FLANGE BOLT HOLES TO STRADDLE INSERT CENTER LINE.  
 4. ACCESS HATCH TO ALLOW FOR STRETCHER REMOVAL.  
 5. PIPE SUPPORT TO BE DESIGNED FOR HYDROSTATIC THRUST OF 55 KIPS.  
 6. U.N.O. ALL PIPE INSERTS TO BE SS 304L SCH.10S.



**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](mailto:victoria.kim@adem.alabama.gov)>  
**Cc:** RUSS Nigel <[Nigel.Russ@essity.com](mailto:Nigel.Russ@essity.com)>; CHORNEY Andrew <[andy.chorney@essity.com](mailto: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 <sup>2</sup> | Sample Type <sup>1</sup> | 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 <sup>2</sup> | Sample Type <sup>1</sup> | Seasonal                   |
|--------------------------------------------------------------------------------|-----------------------------|---------------------------|---------|--------------------------|-------|--------------------|-----------------|-------------------------------|--------------------------|----------------------------|
| Pentachlorophenol (39032)<br>Effluent Gross Value 4/                           | *****                       | 0.0<br>Maximum Daily      | lbs/day | *****                    | ***** | *****              | *****           | Monthly                       | Grab                     | All Months                 |
| Flow, In Conduit or Through<br>Treatment Plant (50050)<br>Effluent Gross Value | (Report)<br>Monthly Average | (Report)<br>Maximum Daily | MGD     | *****                    | ***** | *****              | *****           | Daily                         | Totalizer                | All Months                 |
| Certification - River<br>Monitoring (51946) 5/<br>Effluent Gross Value         | *****                       | *****                     | *****   | *****                    | ***** | 0<br>Maximum Daily | Yes=0; No<br>=1 | Monthly                       | Not<br>Applicable        | May, Jun, Jul,<br>Aug, Sep |
| Trichlorophenol (81848)<br>Effluent Gross Value 4/                             | *****                       | 0.0<br>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<br>40 CFR 430.95 - New source performance standards (NSPS) |                                         |                                           |                            |                              |
| Facilities where tissue paper is produced<br>Off the-machine production                                  |                                         |                                           |                            |                              |
| 501 tons/day<br>1,002,137 lbs/day                                                                        |                                         |                                           |                            |                              |
| Pollutant *                                                                                              | Continuous Discharges                   |                                           | Cluster Limitations        |                              |
|                                                                                                          | Daily Maximum<br>(lbs/1000 lbs product) | Monthly Average<br>(lbs/1000 lbs product) | Daily Maximum<br>(lbs/day) | Monthly Average<br>(lbs/day) |
| BOD <sub>5</sub>                                                                                         | 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<br>(lbs/1000 lbs product) | Monthly Average<br>(lbs/1000 lbs product) | Daily Maximum<br>(lbs/day) | Monthly Average<br>(lbs/day) |
| Pentachlorophenol                                                                                        | 0.003                                   | -                                         | 3.01                       | -                            |
| Trichlorophenol                                                                                          | 0.0069                                  | -                                         | 6.91                       | -                            |
| Total Allocations                                                                                        |                                         |                                           |                            |                              |
| Pollutant                                                                                                | Daily Maximum                           |                                           |                            |                              |
|                                                                                                          | Daily Maximum<br>(lbs/day)              | Monthly Average<br>(lbs/day)              |                            |                              |
| BOD <sub>5</sub>                                                                                         | 9621                                    | 5211                                      |                            |                              |
| TSS                                                                                                      | 13128                                   | 6815                                      |                            |                              |
| Pentachlorophenol                                                                                        | 3.01                                    |                                           |                            |                              |
| Trichlorophenol                                                                                          | 6.91                                    |                                           |                            |                              |
| *pH within the range of 5.0 to 9.0 S.U.                                                                  |                                         |                                           |                            |                              |

Thanks,

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**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.

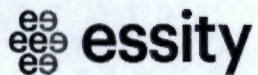
Based on review of ADEM's reasonable potential analysis (RPA), Essity further requests removal of all cyanide effluent limits for Outfall DSN02A1. The RPA demonstrates that this outfall does not have reasonable potential to cause or contribute to an excursion above the applicable acute aquatic life criterion 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

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ESSITY INTERNAL



> **Individual NPDES Permit Renewal Application**

> March 2025

ECT No. 240690-0100

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



7027 Southwest 24<sup>th</sup> Avenue  
Gainesville, Florida 32607  
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## 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:

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Peer Review

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Signature

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03-25-2025  
Date



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Appendix B EPA Form 1

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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" |



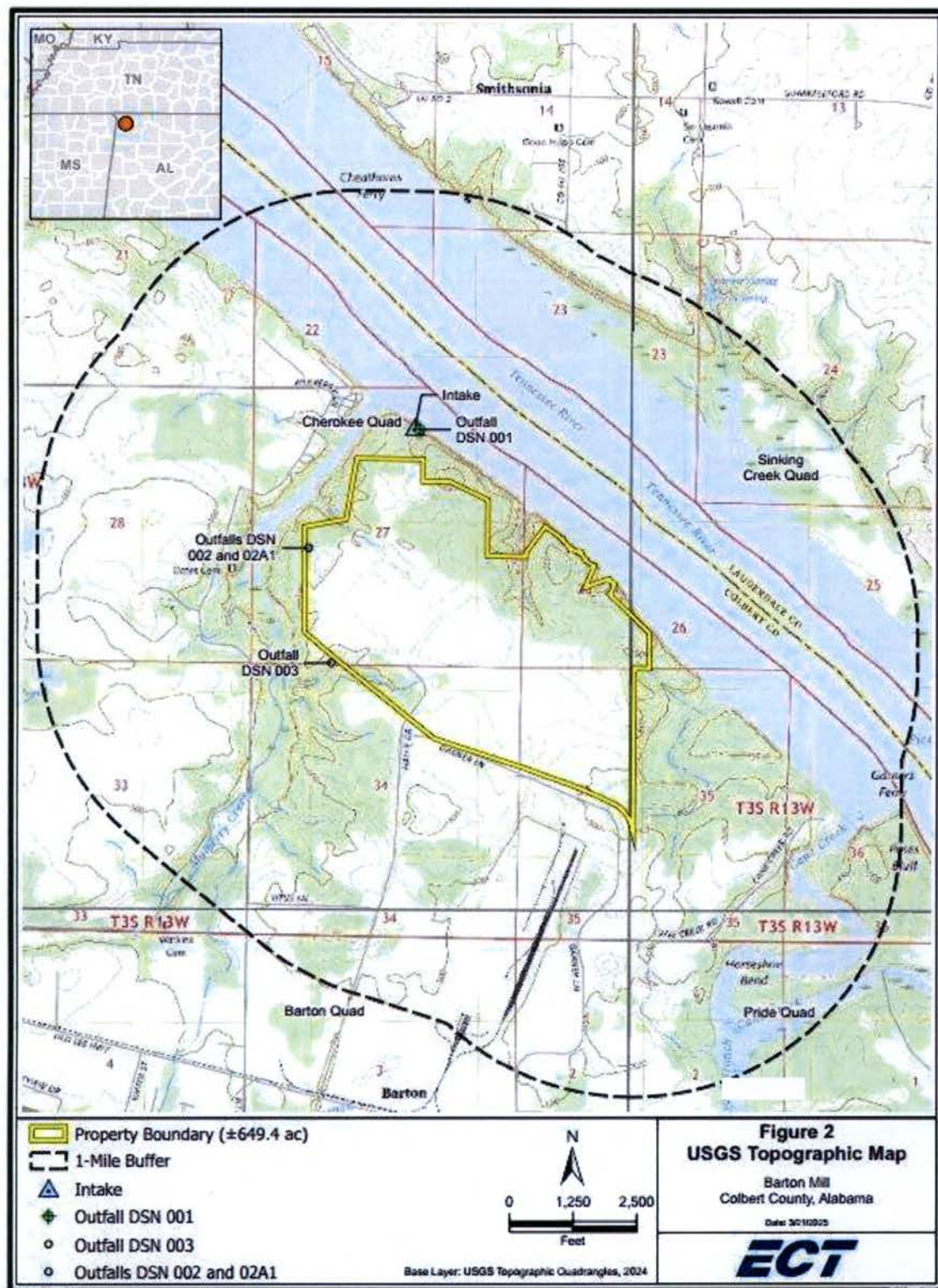


Figure 1. USGS Topographic Map of Barton Mill



### **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).

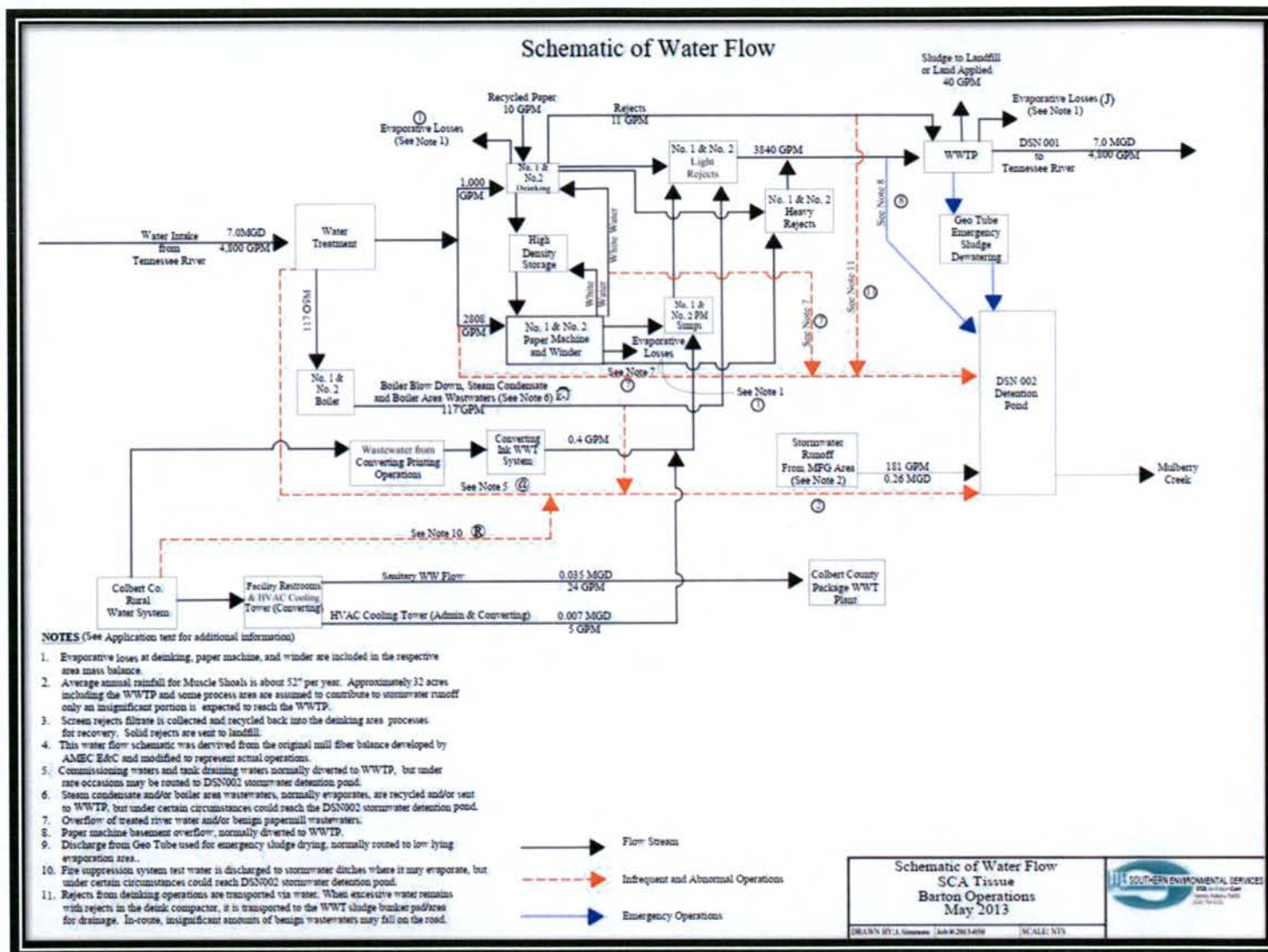


Figure 2. Water Flow Schematic (Modified from: Southern Environmental Services)



### 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.



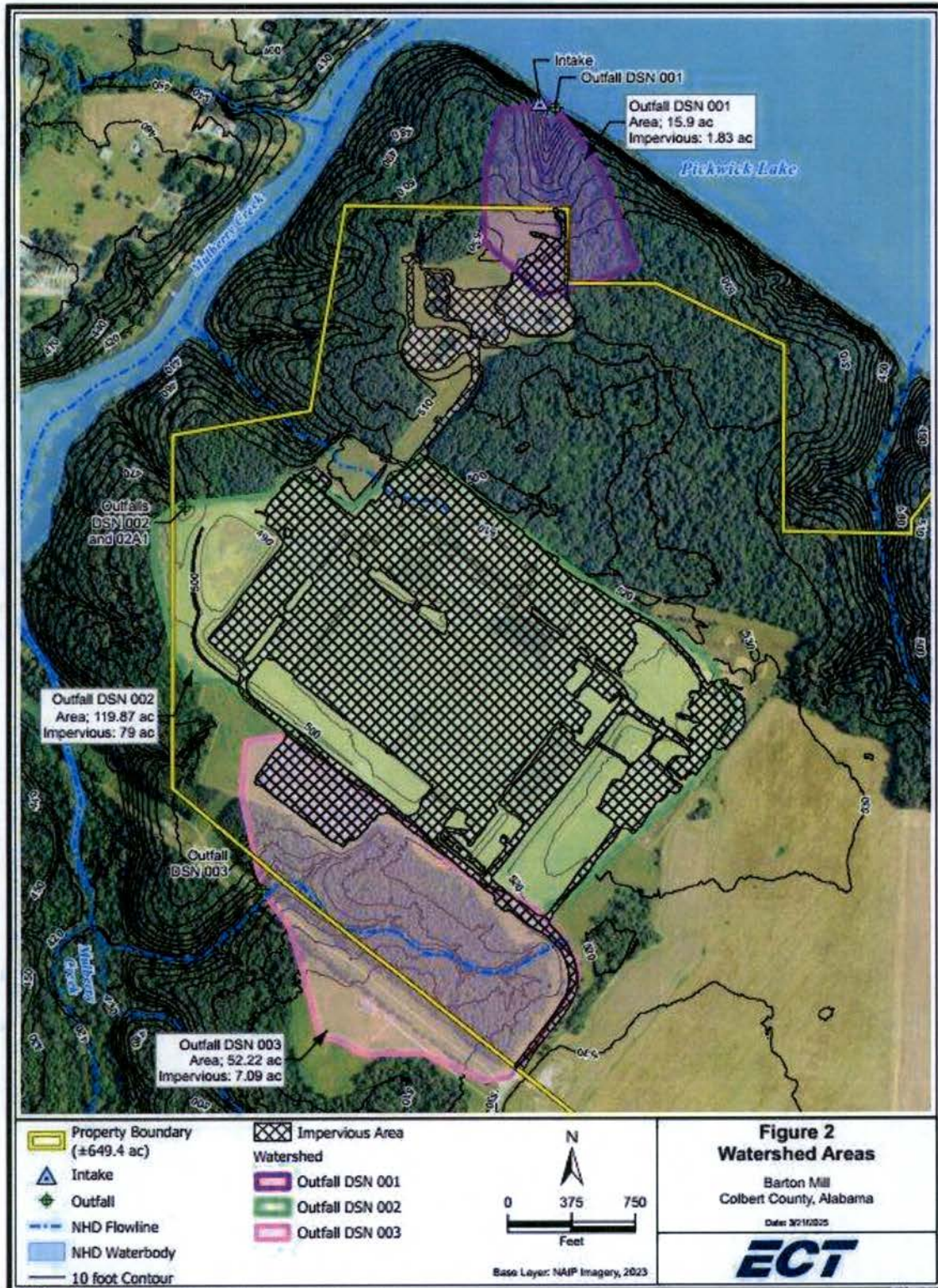


Figure 3: Site Drainage Map



## **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 needed<sup>1</sup>),
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.

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<sup>1</sup> 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.

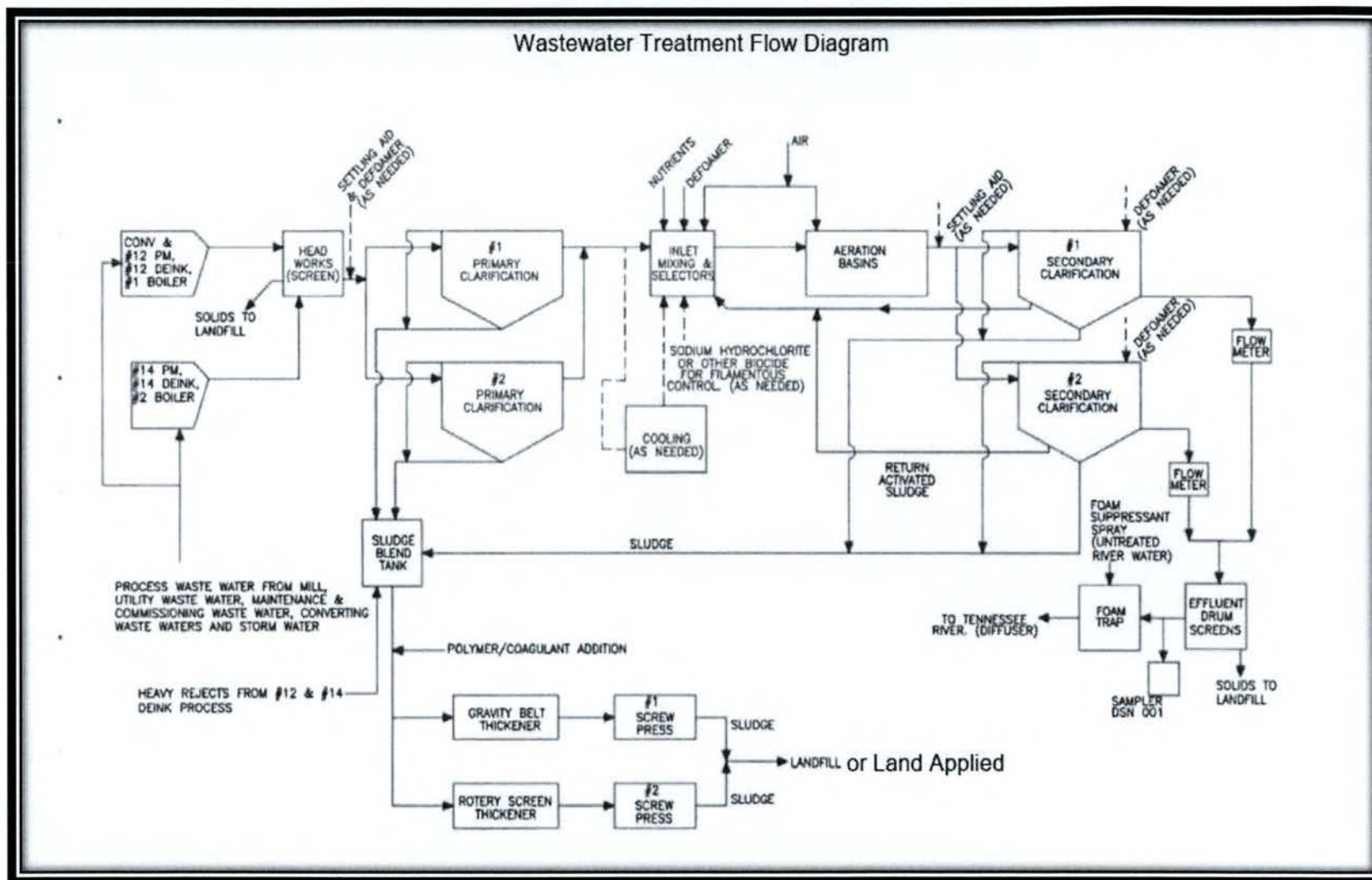


Figure 4. Wastewater Treatment Plant Flow Schematic (Modified from: SCA Tissue North America)



### **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**

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

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**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<br>Outfall No. | Name of Other Permittee/Facility | NPDES<br>Permit No. | Where is sample collected<br>by Applicant? |
|----------------------------|----------------------------------|---------------------|--------------------------------------------|
| NA                         |                                  |                     |                                            |
|                            |                                  |                     |                                            |
|                            |                                  |                     |                                            |

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

|                 |                    |                                         |                             |                              |
|-----------------|--------------------|-----------------------------------------|-----------------------------|------------------------------|
| <b>Current:</b> | Flow Metering      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> n/a |
|                 | Sampling Equipment | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> n/a |
| <b>Planned:</b> | Flow Metering      | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input type="checkbox"/> n/a |
|                 | Sampling Equipment | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input type="checkbox"/> 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? .....                                                                                                           | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Will the project be a source of new air emissions? .....                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Does the project involve dredging and/or filling of a wetland area or water way? .....                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes, has the Corps of Engineers (COE) permit been received? .....                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> |
| COE Project No. ....                                                                                                                                          |                          |                          |
| 4. Does the project involve wetlands and/or submersed grassbeds? .....                                                                                        | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Are oyster reefs located near the project site? .....                                                                                                      | <input type="checkbox"/> | <input type="checkbox"/> |
| 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)? .....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Does the project involve mitigation of shoreline or coastal area erosion? .....                                                                            | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Does the project involve construction on beaches or dune areas? .....                                                                                      | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Will the project interfere with public access to coastal waters? .....                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Does the project lie within the 100-year floodplain? .....                                                                                                | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Does the project involve the registration, sale, use, or application of pesticides? .....                                                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 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)? ..... | <input type="checkbox"/> | <input type="checkbox"/> |
| If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained? .....                                          | <input type="checkbox"/> | <input type="checkbox"/> |

## 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?

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#### 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).

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#### 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                                          | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| DSN02A1     | Mulberry Creek (to Tennessee River)                      | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| DSN002      | Mulberry Creek (to Tennessee River)                      | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| DSN003      | Unnamed Tributary to Mulberry Creek (to Tennessee River) | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
|             |                                                          | <input type="checkbox"/> Yes | <input type="checkbox"/> No            | <input type="checkbox"/> Yes | <input type="checkbox"/> 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<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|----------------------------------|----------------------------------------------|---------------------------------------------|

|                    |                                                                                   |                                                                                                                                          |
|--------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Form<br>1<br>NPDES |  | <b>U.S. Environmental Protection Agency</b><br><b>Application for NPDES Permit to Discharge Wastewater</b><br><b>GENERAL INFORMATION</b> |
|--------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

| SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1)) |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Activities Requiring an NPDES Permit                                          | 1.1                                                                                                                                                                                                                                                                                                                                                      | <b>Applicants <i>Not</i> Required to Submit Form 1</b>                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                |
|                                                                               | 1.1.1                                                                                                                                                                                                                                                                                                                                                    | Is the facility a new or existing <b>publicly owned treatment works</b> ?<br>If yes, STOP. Do NOT complete Form 1. Complete Form 2A. <div style="text-align: right;"><input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</div>                                                                                                                                                                                  | Is the facility a new or existing <b>treatment works treating domestic sewage</b> ?<br>If yes, STOP. Do NOT complete Form 1. Complete Form 2S. <div style="text-align: right;"><input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No</div>                                                     |
|                                                                               | 1.2                                                                                                                                                                                                                                                                                                                                                      | <b>Applicants <i>Required</i> to Submit Form 1</b>                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                |
|                                                                               | 1.2.1                                                                                                                                                                                                                                                                                                                                                    | Is the facility a <b>concentrated animal feeding operation</b> or a <b>concentrated aquatic animal production facility</b> ?<br><div style="text-align: right;"><input type="checkbox"/> Yes → Complete Form 1 and Form 2B.   <input checked="" type="checkbox"/> No</div>                                                                                                                                                        | Is the facility an <b>existing</b> manufacturing, commercial, mining, or silvicultural <b>facility</b> that is <b>currently discharging process wastewater</b> ?<br><div style="text-align: right;"><input checked="" type="checkbox"/> Yes → Complete Form 1 and Form 2C.   <input type="checkbox"/> No</div> |
|                                                                               | 1.2.3                                                                                                                                                                                                                                                                                                                                                    | Is the facility a <b>new</b> manufacturing, commercial, mining, or silvicultural <b>facility</b> that has <b>not yet commenced to discharge</b> ?<br><div style="text-align: right;"><input type="checkbox"/> Yes → Complete Form 1 and Form 2D.   <input checked="" type="checkbox"/> No</div>                                                                                                                                   | Is the facility a <b>new or existing</b> manufacturing, commercial, mining, or silvicultural <b>facility</b> that <b>discharges only nonprocess wastewater</b> ?<br><div style="text-align: right;"><input type="checkbox"/> Yes → Complete Form 1 and Form 2E.   <input checked="" type="checkbox"/> No</div> |
|                                                                               | 1.2.5                                                                                                                                                                                                                                                                                                                                                    | Is the facility a <b>new or existing facility</b> whose discharge is composed entirely of <b>stormwater associated with industrial activity</b> or whose discharge is composed of <b>both stormwater and non-stormwater</b> ?<br><div style="text-align: right;"><input checked="" type="checkbox"/> Yes → Complete Form 1 and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15).   <input type="checkbox"/> No</div> |                                                                                                                                                                                                                                                                                                                |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
| SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))          |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
| Name, Mailing Address, and Location                                           | 2.1                                                                                                                                                                                                                                                                                                                                                      | <b>Facility Name</b>                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                |
|                                                                               | Essity Professional Hygiene North America, LLC - Barton Operations                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
|                                                                               | 2.2                                                                                                                                                                                                                                                                                                                                                      | <b>EPA Identification Number</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                |
|                                                                               | ALR000029868                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
|                                                                               | 2.3                                                                                                                                                                                                                                                                                                                                                      | <b>Facility Contact</b>                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                |
|                                                                               | <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;">Name (first and last)<br/>Alicia Barnes</div> <div style="width: 30%;">Title<br/>Environmental Manager</div> <div style="width: 30%;">Phone number<br/>(256) 710-5836</div> </div> <div style="margin-top: 5px;">Email address<br/>Alicia.Barnes1@essity.com</div> |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
|                                                                               | 2.4                                                                                                                                                                                                                                                                                                                                                      | <b>Facility Mailing Address</b>                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
| Street or P.O. box<br>1834 Haley Drive                                        |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
| City or town<br>Cherokee                                                      |                                                                                                                                                                                                                                                                                                                                                          | State<br>AL                                                                                                                                                                                                                                                                                                                                                                                                                       | ZIP code<br>35616                                                                                                                                                                                                                                                                                              |

|                                           |  |                                  |  |                                              |  |                                             |  |
|-------------------------------------------|--|----------------------------------|--|----------------------------------------------|--|---------------------------------------------|--|
| EPA Identification Number<br>ALR000029868 |  | NPDES Permit Number<br>AL0074667 |  | Facility Name<br>Essity Professional Hygiene |  | Form Approved 03/05/19<br>OMB No. 2040-0004 |  |
|-------------------------------------------|--|----------------------------------|--|----------------------------------------------|--|---------------------------------------------|--|

|                                                      |     |                                                                        |  |  |                        |  |                   |
|------------------------------------------------------|-----|------------------------------------------------------------------------|--|--|------------------------|--|-------------------|
| <b>Name, Mailing Address, and Location Continued</b> | 2.5 | <b>Facility Location</b>                                               |  |  |                        |  |                   |
|                                                      |     | Street, route number, or other specific identifier<br>1834 Haley Drive |  |  |                        |  |                   |
|                                                      |     | County name<br>Colbert                                                 |  |  | County code (if known) |  |                   |
|                                                      |     | City or town<br>Cherokee                                               |  |  | State<br>AL            |  | ZIP code<br>35616 |

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

| SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))                                                                                                                                                                             |                                                                     |                                                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|--|
| <b>Operator Information</b>                                                                                                                                                                                                       | 4.1                                                                 | <b>Name of Operator</b>                            |  |
|                                                                                                                                                                                                                                   | Essity Professional Hygiene North America, LLC                      |                                                    |  |
|                                                                                                                                                                                                                                   | 4.2                                                                 | Is the name you listed in Item 4.1 also the owner? |  |
|                                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                    |  |
|                                                                                                                                                                                                                                   | 4.3                                                                 | <b>Operator Status</b>                             |  |
| <input type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input type="checkbox"/> Other public (specify) _____<br><input checked="" type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____ |                                                                     |                                                    |  |
| 4.4                                                                                                                                                                                                                               | <b>Phone Number of Operator</b>                                     |                                                    |  |
|                                                                                                                                                                                                                                   | (256) 370-8100                                                      |                                                    |  |
|                                                                                                                                                                                                                                   |                                                                     |                                                    |  |

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

| SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5)) |                                                                                                                    |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Indian Land</b>                           | 5.1 Is the facility located on Indian Land?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |



|                                           |                                  |                                              |                                             |
|-------------------------------------------|----------------------------------|----------------------------------------------|---------------------------------------------|
| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|----------------------------------|----------------------------------------------|---------------------------------------------|

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

|                                |     |                                                                                                                         |                                                           |                                                                |
|--------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|
| Existing Environmental Permits | 6.1 | <b>Existing Environmental Permits</b> (check all that apply and print or type the corresponding permit number for each) |                                                           |                                                                |
|                                |     | <input checked="" type="checkbox"/> NPDES (discharges to surface water)<br>AL0074667                                    | <input type="checkbox"/> RCRA (hazardous wastes)          | <input type="checkbox"/> UIC (underground injection of fluids) |
|                                |     | <input type="checkbox"/> PSD (air emissions)                                                                            | <input type="checkbox"/> Nonattainment program (CAA)      | <input type="checkbox"/> NESHAPs (CAA)                         |
|                                |     | <input type="checkbox"/> Ocean dumping (MPRSA)                                                                          | <input type="checkbox"/> Dredge or fill (CWA Section 404) | <input checked="" type="checkbox"/> Other (specify)<br>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.)<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CAFO—Not Applicable (See requirements in Form 2B.) |
|-----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

|                    |     |                                                                                                                                                                                                                                           |
|--------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nature of Business | 8.1 | Describe the nature of your business.<br>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. |
|--------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

|                                 |     |                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cooling Water Intake Structures | 9.1 | Does your facility use cooling water?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.)<br>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.) |                                                                                             |
|                   |      | <input type="checkbox"/> Fundamentally different factors (CWA Section 301(n))                                                                                                                                                     | <input type="checkbox"/> Water quality related effluent limitations (CWA Section 302(b)(2)) |
|                   |      | <input type="checkbox"/> Non-conventional pollutants (CWA Section 301(c) and (g))                                                                                                                                                 | <input type="checkbox"/> Thermal discharges (CWA Section 316(a))                            |
|                   |      | <input checked="" type="checkbox"/> Not applicable                                                                                                                                                                                |                                                                                             |

|                                           |                                  |                                                    |                                             |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|
| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|

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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|-------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------|
|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Column 1</th> <th style="width: 50%; text-align: center;">Column 2</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Section 1: Activities Requiring an NPDES Permit</td> <td><input type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 2: Name, Mailing Address, and Location</td> <td><input type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 3: SIC Codes</td> <td><input type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 4: Operator Information</td> <td><input type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 5: Indian Land</td> <td><input type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 6: Existing Environmental Permits</td> <td><input type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 7: Map</td> <td> <input checked="" type="checkbox"/> w/ topographic map     <input type="checkbox"/> w/ additional attachments         </td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 8: Nature of Business</td> <td><input type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 9: Cooling Water Intake Structures</td> <td><input type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 10: Variance Requests</td> <td><input type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 11: Checklist and Certification Statement</td> <td><input type="checkbox"/> w/ attachments</td> </tr> </tbody> </table> | Column 1                       | Column 2      | <input checked="" type="checkbox"/> Section 1: Activities Requiring an NPDES Permit | <input type="checkbox"/> w/ attachments | <input checked="" type="checkbox"/> Section 2: Name, Mailing Address, and Location | <input type="checkbox"/> w/ attachments | <input checked="" type="checkbox"/> Section 3: SIC Codes | <input type="checkbox"/> w/ attachments | <input checked="" type="checkbox"/> Section 4: Operator Information | <input type="checkbox"/> w/ attachments | <input checked="" type="checkbox"/> Section 5: Indian Land | <input type="checkbox"/> w/ attachments | <input checked="" type="checkbox"/> Section 6: Existing Environmental Permits | <input type="checkbox"/> w/ attachments | <input checked="" type="checkbox"/> Section 7: Map | <input checked="" type="checkbox"/> w/ topographic map <input type="checkbox"/> w/ additional attachments | <input checked="" type="checkbox"/> Section 8: Nature of Business | <input type="checkbox"/> w/ attachments | <input checked="" type="checkbox"/> Section 9: Cooling Water Intake Structures | <input type="checkbox"/> w/ attachments | <input checked="" type="checkbox"/> Section 10: Variance Requests | <input type="checkbox"/> w/ attachments | <input checked="" type="checkbox"/> Section 11: Checklist and Certification Statement | <input type="checkbox"/> w/ attachments |
|                                                           | Column 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Column 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 1: Activities Requiring an NPDES Permit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 2: Name, Mailing Address, and Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 3: SIC Codes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 4: Operator Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 5: Indian Land                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 6: Existing Environmental Permits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 7: Map                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> w/ topographic map <input type="checkbox"/> w/ additional attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 8: Nature of Business                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 9: Cooling Water Intake Structures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 10: Variance Requests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
|                                                           | <input checked="" type="checkbox"/> Section 11: Checklist and Certification Statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
| 11.2                                                      | <b>Certification Statement</b><br><br><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: 50%; vertical-align: top;">           Name (print or type first and last name)<br/>           Steve Edwards         </td> <td style="width: 50%; vertical-align: top;">           Official title<br/>           Site Manager         </td> </tr> <tr> <td style="vertical-align: top;">           Signature<br/> </td> <td style="vertical-align: top;">           Date signed<br/>           3/25/25         </td> </tr> </table>                                                                                                                                                                                 | Name (print or type first and last name)<br>Steve Edwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Official title<br>Site Manager | Signature<br> | Date signed<br>3/25/25                                                              |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
| Name (print or type first and last name)<br>Steve Edwards | Official title<br>Site Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |
| Signature<br>                                             | Date signed<br>3/25/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |               |                                                                                     |                                         |                                                                                    |                                         |                                                          |                                         |                                                                     |                                         |                                                            |                                         |                                                                               |                                         |                                                    |                                                                                                           |                                                                   |                                         |                                                                                |                                         |                                                                   |                                         |                                                                                       |                                         |

## Appendix C EPA Form 2C – Outfall DSN001

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Water Permits Division

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# **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.



|                                           |                                  |                                                    |                                             |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|
| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|

|                     |  |                                                                                                                                                                                              |
|---------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form<br>2C<br>NPDES |  | <b>U.S. Environmental Protection Agency</b><br><b>Application for NPDES Permit to Discharge Wastewater</b><br><b>EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS</b> |
|---------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

|                         |     |                                                                            |                      |               |               |
|-------------------------|-----|----------------------------------------------------------------------------|----------------------|---------------|---------------|
| <b>Outfall Location</b> | 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))

|                     |     |                                                                                                                                                                                                                                                                                                         |
|---------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Line Drawing</b> | 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.)<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|---------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                                    |     |                                                                                                                                 |                         |                                                                        |
|------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------|
| <b>Average Flows and Treatment</b> | 3.1 | For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary. |                         |                                                                        |
|                                    |     | <b>**Outfall Number**</b> 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<br>(include size, flow rate through each treatment unit, retention time, etc.)                                      | Code from<br>Table 2C-1 | Final Disposal of Solid or<br>Liquid Wastes Other Than<br>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 |  |
|  |  |  |                    |  |
|  |  |  |                    |  |

|                                           |  |                                  |                                                    |                                             |
|-------------------------------------------|--|----------------------------------|----------------------------------------------------|---------------------------------------------|
| EPA Identification Number<br>ALR000029868 |  | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|--|----------------------------------|----------------------------------------------------|---------------------------------------------|

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

|              |     |                                                                                                                                                                                |  |
|--------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| System Users | 3.2 | Are you applying for an NPDES permit to operate a privately owned treatment works?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 4. |  |
|              | 3.3 | Have you attached a list that identifies each user of the treatment works?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |  |



|                                           |                                  |                                                    |                                             |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|
| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|

**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?<br><input type="checkbox"/> Yes <span style="margin-left: 100px;"><input checked="" type="checkbox"/> No → SKIP to Section 5.</span> |                  |                   |                     |                   |               |          |
|                    | 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?<br><input checked="" type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No → SKIP to Section 6.</span> |                                   |                       |
|                 | 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)?<br><input checked="" type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No → SKIP to Section 6.</span> |                                                                   |                  |                 |
|                              | 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? |                                         |                        |                                                   |
|                           |     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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<br>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)                                                                                      |                                         |                        |                                                   |
|                           |     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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. |                                                                                                                                                                                       |  |  |
|                                     | <b>Table A. Conventional and Non-Conventional Pollutants</b>                                                                                                                            |                                                                                                                                                                                       |  |  |
|                                     | 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?                                                  |  |  |
|                                     |                                                                                                                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?     |  |  |
|                                     |                                                                                                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls.               |  |  |
|                                     | <b>Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants</b>                                                                                                      |                                                                                                                                                                                       |  |  |
|                                     | 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.) |  |  |
|                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?                                                                           |                                                                                                                                                                                       |  |  |
|                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)<br>(Check applicable boxes.)                                                                                                                               |  |  |
|                                     | Pulp, Paper, and Paperboard / Secondary Fiber Deink                                                                                                                                     | <input checked="" type="checkbox"/> Volatile <input checked="" type="checkbox"/> Acid <input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide                        |  |  |
|                                     |                                                                                                                                                                                         | <input type="checkbox"/> Volatile <input type="checkbox"/> Acid <input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide                                              |  |  |
|                                     |                                                                                                                                                                                         | <input type="checkbox"/> Volatile <input type="checkbox"/> Acid <input type="checkbox"/> Base/Neutral <input type="checkbox"/> 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                                   |
|                                               | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                                      |
|                                               | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>       |
|                                               | 7.10                                                          | Does the applicant qualify for a small business exemption under the criteria specified in the instructions?<br><input type="checkbox"/> Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. <span style="float: right;"><input checked="" type="checkbox"/> No</span>                                                                                                                        |
|                                               | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span> |
|                                               | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                                                  |
|                                               | 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"?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                          |
|                                               | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                                                  |
|                                               | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                    |
|                                               | 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?<br><input type="checkbox"/> Yes → Complete Table E. <span style="float: right;"><input checked="" type="checkbox"/> No → SKIP to Section 8.</span>                                                              |
|                                               | 7.17                                                          | Have you completed Table E by reporting <i>qualitative</i> data for TCDD?<br><input type="checkbox"/> Yes <span style="float: right;"><input checked="" type="checkbox"/> No</span>                                                                                                                                                                                                                                 |

|                                                              |     |                                                                                                                                                                                                                                                                                                     |    |
|--------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 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?<br><input type="checkbox"/> Yes <span style="float: right;"><input checked="" type="checkbox"/> No → SKIP to Section 9.</span> |    |
|                                                              | 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))**

|                                  |     |                                                                                                                                                                                                                                                                                                                                       |                           |                                                                     |                       |
|----------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------|-----------------------|
| <b>Biological Toxicity Tests</b> | 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?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 10. |                           |                                                                     |                       |
|                                  | 9.2 | Identify the tests and their purposes below.                                                                                                                                                                                                                                                                                          |                           |                                                                     |                       |
|                                  |     | <b>Test(s)</b>                                                                                                                                                                                                                                                                                                                        | <b>Purpose of Test(s)</b> | <b>Submitted to NPDES Permitting Authority?</b>                     | <b>Date Submitted</b> |
|                                  |     | DSN001: 48-hour acute toxicity                                                                                                                                                                                                                                                                                                        | Annual permit requirement | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 01/13/2025            |
|                                  |     | DSN001: 48-hour acute toxicity                                                                                                                                                                                                                                                                                                        | Annual permit requirement | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 01/04/2024            |
|                                  |     | DSN001: 48-hour acute toxicity                                                                                                                                                                                                                                                                                                        | Annual permit requirement | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 01/12/2023            |

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

|                          |                         |                                                                                                                                                                                                    |                                                   |                                            |
|--------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------|
| <b>Contract Analyses</b> | 10.1                    | Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 11. |                                                   |                                            |
|                          | 10.2                    | Provide information for each contract laboratory or consulting firm below.                                                                                                                         |                                                   |                                            |
|                          |                         | <b>Laboratory Number 1</b>                                                                                                                                                                         | <b>Laboratory Number 2</b>                        | <b>Laboratory Number 3</b>                 |
|                          | Name of laboratory/firm | Environmental Resource Analysts, Inc. (ERA)                                                                                                                                                        | Southern Environmental Testing                    | Eurofins Pensacola                         |
|                          | Laboratory address      | 2975 Brown Court<br>Auburn, AL 36830                                                                                                                                                               | 3103 Northington Court<br>Florence, AL 35630      | 3355 McLemore Drive<br>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))**

|                               |      |                                                                                                                                                                   |  |  |
|-------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Additional Information</b> | 11.1 | Has the NPDES permitting authority requested additional information?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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))**

|                                              |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Checklist and Certification Statement</b> | 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.                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                              |                                                                                     | <b>Column 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Column 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 1: Outfall Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 2: Line Drawing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> w/ line drawing <input type="checkbox"/> w/ additional attachments<br><input type="checkbox"/> w/ list of each user of privately owned treatment works                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 3: Average Flows and Treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 4: Intermittent Flows                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 5: Production                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 6: Improvements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> w/ attachments <input type="checkbox"/> w/ optional additional sheets describing any additional pollution control plans                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 7: Effluent and Intake Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> w/ request for a waiver and supporting information<br><input type="checkbox"/> w/ small business exemption request<br><input checked="" type="checkbox"/> w/ Table A <input checked="" type="checkbox"/> w/ explanation for identical outfalls<br><input checked="" type="checkbox"/> w/ Table C <input checked="" type="checkbox"/> w/ other attachments<br><input checked="" type="checkbox"/> w/ Table E <input checked="" type="checkbox"/> w/ Table B<br><input checked="" type="checkbox"/> w/ Table D<br><input checked="" type="checkbox"/> w/ analytical results as an attachment |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 8: Used or Manufactured Toxics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 9: Biological Toxicity Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 10: Contract Analyses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 11: Additional Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                              | <input checked="" type="checkbox"/>                                                 | Section 12: Checklist and Certification Statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                              | 12.2                                                                                | <b>Certification Statement</b><br><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))<sup>1</sup>**

| Pollutant                                                                                                                                                                            | Waiver Requested<br>(if applicable) | Units<br>(specify) | Effluent                              |                                             |                                                     |                    | Intake<br>(Optional)    |                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|---------------------------------------|---------------------------------------------|-----------------------------------------------------|--------------------|-------------------------|--------------------|--|
|                                                                                                                                                                                      |                                     |                    | Maximum Daily Discharge<br>(required) | Maximum Monthly Discharge<br>(if available) | Long-Term Average Daily Discharge<br>(if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |  |
| <input type="checkbox"/> 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 <sub>5</sub> )                                                                                                                                     | <input type="checkbox"/>            | Concentration      | mg/l                                  | 36.2                                        |                                                     | 6.87               | 444                     |                    |  |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | 2180                                        | 811                                                 | 371                | 444                     |                    |  |
| 2. Chemical oxygen demand (COD)                                                                                                                                                      | <input type="checkbox"/>            | Concentration      | mg/l                                  | 82.0                                        |                                                     |                    | 1                       |                    |  |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | 4678                                        |                                                     |                    | 1                       |                    |  |
| 3. Total organic carbon (TOC)                                                                                                                                                        | <input type="checkbox"/>            | Concentration      | mg/l                                  | 17.0                                        |                                                     |                    | 1                       |                    |  |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | 970                                         |                                                     |                    | 1                       |                    |  |
| 4. Total suspended solids (TSS)                                                                                                                                                      | <input type="checkbox"/>            | Concentration      | mg/l                                  | 247                                         |                                                     | 14.7               | 444                     |                    |  |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | 13347                                       | 3345                                                | 786                | 444                     |                    |  |
| 5. Ammonia (as N)                                                                                                                                                                    | <input type="checkbox"/>            | Concentration      | mg/l                                  | 6.58                                        | 6.58                                                | 0.87               | 52                      |                    |  |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | 372                                         |                                                     | 48                 | 52                      |                    |  |
| 6. Flow                                                                                                                                                                              | <input type="checkbox"/>            | Rate               | MGD                                   | 8.19                                        | 7.049                                               | 6.47               | 1551                    |                    |  |
| 7. Temperature                                                                                                                                                                       | <input type="checkbox"/>            | °C                 | °C                                    | 32                                          | 32                                                  |                    | 27                      |                    |  |
|                                                                                                                                                                                      | <input type="checkbox"/>            | °C                 | °C                                    | 37                                          | 37                                                  |                    | 23                      |                    |  |
| 8. pH                                                                                                                                                                                | <input type="checkbox"/>            | Standard units     | s.u.                                  | 6.39                                        |                                                     |                    | 443                     |                    |  |
|                                                                                                                                                                                      | <input type="checkbox"/>            | Standard units     | s.u.                                  | 8.12                                        |                                                     |                    | 443                     |                    |  |

<sup>1</sup> 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))<sup>1</sup>**

| Pollutant/Parameter<br>(and CAS Number, if available) | Testing<br>Required                                                                                                                                                                                                                                                                                                                                                                 | Presence or Absence<br>(check one) |                    | Units<br>(specify) | Effluent                                    |                                                   |                                                              |                          | Intake<br>(optional)              |                          |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------|--------------------|---------------------------------------------|---------------------------------------------------|--------------------------------------------------------------|--------------------------|-----------------------------------|--------------------------|
|                                                       |                                                                                                                                                                                                                                                                                                                                                                                     | Believed<br>Present                | Believed<br>Absent |                    | Maximum<br>Daily<br>Discharge<br>(required) | Maximum<br>Monthly<br>Discharge<br>(if available) | Long-Term<br>Average<br>Daily<br>Discharge<br>(if available) | Number<br>of<br>Analyses | Long-<br>Term<br>Average<br>Value | Number<br>of<br>Analyses |
| <input type="checkbox"/>                              | 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<br>(7440-36-0)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.2  | Arsenic, total<br>(7440-38-2)   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.3  | Beryllium, total<br>(7440-41-7) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.4  | Cadmium, total<br>(7440-43-9)   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.5  | Chromium, total<br>(7440-47-3)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.6  | Copper, total<br>(7440-50-8)    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.7  | Lead, total<br>(7439-92-1)      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.8  | Mercury, total<br>(7439-97-6)   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.9  | Nickel, total<br>(7440-02-0)    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.10 | Selenium, total<br>(7782-49-2)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration | mg/l    | ND |  | 1 |  |
|      |                                 |                                     |                          |                          | Mass          | lbs/day | ND |  | 1 |  |
| 1.11 | Silver, total<br>(7440-22-4)    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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))<sup>1</sup>**

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

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

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

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

|      | Pollutant/Parameter<br>(and CAS Number, if available) | Testing<br>Required      | Presence or Absence<br>(check one) |                                     | Units<br>(specify) |         | Effluent                                    |                                                   |                                                              |                          | Intake<br>(optional)              |                          |
|------|-------------------------------------------------------|--------------------------|------------------------------------|-------------------------------------|--------------------|---------|---------------------------------------------|---------------------------------------------------|--------------------------------------------------------------|--------------------------|-----------------------------------|--------------------------|
|      |                                                       |                          | Believed<br>Present                | Believed<br>Absent                  |                    |         | Maximum<br>Daily<br>Discharge<br>(required) | Maximum<br>Monthly<br>Discharge<br>(if available) | Long-Term<br>Average<br>Daily<br>Discharge<br>(if available) | Number<br>of<br>Analyses | Long-<br>Term<br>Average<br>Value | Number<br>of<br>Analyses |
| 4.7  | 3,4-benzofluoranthene<br>(205-99-2)                   | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.8  | Benzo (ghi) perylene<br>(191-24-2)                    | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.9  | Benzo (k) fluoranthene<br>(207-08-9)                  | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.10 | Bis (2-chloroethoxy) methane<br>(111-91-1)            | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.11 | Bis (2-chloroethyl) ether<br>(111-44-4)               | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.12 | Bis (2-chloroisopropyl) ether<br>(102-80-1)           | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |         |                                             |                                                   |                                                              |                          |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               |         |                                             |                                                   |                                                              |                          |                                   |                          |
| 4.13 | Bis (2-ethylhexyl) phthalate<br>(117-81-7)            | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | 0.016                                       |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | 0.91                                        |                                                   |                                                              | 1                        |                                   |                          |
| 4.14 | 4-bromophenyl phenyl ether<br>(101-55-3)              | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.15 | Butyl benzyl phthalate<br>(85-68-7)                   | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.16 | 2-chloronaphthalene<br>(91-58-7)                      | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.17 | 4-chlorophenyl phenyl ether<br>(7005-72-3)            | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.18 | Chrysene<br>(218-01-9)                                | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      | mg/l    | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               | lbs/day | ND                                          |                                                   |                                                              | 1                        |                                   |                          |
| 4.19 | Dibenzo (a,h) anthracene<br>(53-70-3)                 | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | 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))<sup>1</sup>**

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

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

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

|                                           |                                  |                                                    |                          |
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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))<sup>1</sup>**

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



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

|      | Pollutant/Parameter<br>(and CAS Number, if available) | Testing<br>Required      | Presence or Absence<br>(check one) |                                     | Units<br>(specify) |  | Effluent                                    |                                                   |                                                              |                          | Intake<br>(optional)              |                          |
|------|-------------------------------------------------------|--------------------------|------------------------------------|-------------------------------------|--------------------|--|---------------------------------------------|---------------------------------------------------|--------------------------------------------------------------|--------------------------|-----------------------------------|--------------------------|
|      |                                                       |                          | Believed<br>Present                | Believed<br>Absent                  |                    |  | Maximum<br>Daily<br>Discharge<br>(required) | Maximum<br>Monthly<br>Discharge<br>(if available) | Long-Term<br>Average<br>Daily<br>Discharge<br>(if available) | Number<br>of<br>Analyses | Long-<br>Term<br>Average<br>Value | Number<br>of<br>Analyses |
|      |                                                       |                          |                                    |                                     |                    |  |                                             |                                                   |                                                              |                          |                                   |                          |
| 5.25 | Toxaphene<br>(8001-35-2)                              | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |  |                                             |                                                   |                                                              |                          |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               |  |                                             |                                                   |                                                              |                          |                                   |                          |

<sup>1</sup> 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))<sup>1</sup>**

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

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

| Pollutant         | Presence or Absence<br>(check one) |                                     | Units<br>(specify) | Effluent                              |                                             |                                                     |                    | Intake<br>(Optional)    |                    |
|-------------------|------------------------------------|-------------------------------------|--------------------|---------------------------------------|---------------------------------------------|-----------------------------------------------------|--------------------|-------------------------|--------------------|
|                   | Believed Present                   | Believed Absent                     |                    | Maximum Daily Discharge<br>(required) | Maximum Monthly Discharge<br>(if available) | Long-Term Average Daily Discharge<br>(if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 24. Radioactivity |                                    |                                     |                    |                                       |                                             |                                                     |                    |                         |                    |
| Alpha, total      | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |                                       |                                             |                                                     |                    |                         |                    |
|                   |                                    |                                     | Mass               |                                       |                                             |                                                     |                    |                         |                    |
| Beta, total       | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |                                       |                                             |                                                     |                    |                         |                    |
|                   |                                    |                                     | Mass               |                                       |                                             |                                                     |                    |                         |                    |
| Radium, total     | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |                                       |                                             |                                                     |                    |                         |                    |
|                   |                                    |                                     | Mass               |                                       |                                             |                                                     |                    |                         |                    |
| Radium 226, total | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |                                       |                                             |                                                     |                    |                         |                    |
|                   |                                    |                                     | Mass               |                                       |                                             |                                                     |                    |                         |                    |

<sup>1</sup> 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))<sup>1</sup>**

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

|                                           |                                  |                                                    |                          |
|-------------------------------------------|----------------------------------|----------------------------------------------------|--------------------------|
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))<sup>1</sup>**

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



|                                           |                                  |                                                    |                          |
|-------------------------------------------|----------------------------------|----------------------------------------------------|--------------------------|
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))<sup>1</sup>**

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

|                                           |                                  |                                                    |                          |
|-------------------------------------------|----------------------------------|----------------------------------------------------|--------------------------|
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))<sup>1</sup>**

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

|                                           |                                  |                                                    |                          |
|-------------------------------------------|----------------------------------|----------------------------------------------------|--------------------------|
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|-------------------------------------------|----------------------------------|----------------------------------------------------|--------------------------|

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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))<sup>1</sup>**

|     | Pollutant     | Presence or Absence<br>(check one) |                                     | Reason Pollutant Believed Present in Discharge | Available Quantitative Data<br>(specify units) |
|-----|---------------|------------------------------------|-------------------------------------|------------------------------------------------|------------------------------------------------|
|     |               | Believed Present                   | Believed Absent                     |                                                |                                                |
| 77. | Vinyl acetate | <input type="checkbox"/>           | <input checked="" type="checkbox"/> |                                                |                                                |
| 78. | Xylene        | <input type="checkbox"/>           | <input checked="" type="checkbox"/> |                                                |                                                |
| 79. | Xylenol       | <input type="checkbox"/>           | <input checked="" type="checkbox"/> |                                                |                                                |
| 80. | Zirconium     | <input type="checkbox"/>           | <input checked="" type="checkbox"/> |                                                |                                                |

<sup>1</sup> 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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|                                           |                                  |                                                    |                          |
|-------------------------------------------|----------------------------------|----------------------------------------------------|--------------------------|
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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<br>Congeners<br>Used or<br>Manufactured | Presence or<br>Absence<br>(check one) |                                     | Results of Screening Procedure |
|--------------|----------------------------------------------|---------------------------------------|-------------------------------------|--------------------------------|
|              |                                              | Believed<br>Present                   | Believed<br>Absent                  |                                |
| 2,3,7,8-TCDD | <input type="checkbox"/>                     | <input type="checkbox"/>              | <input checked="" type="checkbox"/> |                                |

## Appendix D EPA Form 2C – Outfall DSN02A1

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Water Permits Division

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# **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.

|                                                                     |                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------|---------------------------------------------|-------------------------------------------------------------------------|
| EPA Identification Number<br>ALR000029868                           |                                                                                                                                                                                                                                                                                                         | NPDES Permit Number<br>AL0074667  |                                                                                                                                                                                              | Facility Name<br>Essity Professional Hygiene North |               | Form Approved 03/05/19<br>OMB No. 2040-0004 |                                                                         |
| Form<br>2C<br>NPDES                                                 |                                                                                                                                                                                                                        |                                   | <b>U.S. Environmental Protection Agency</b><br><b>Application for NPDES Permit to Discharge Wastewater</b><br><b>EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS</b> |                                                    |               |                                             |                                                                         |
| <b>SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))</b>            |                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
| <b>Outfall Location</b>                                             | 1.1 Provide information on each of the facility's outfalls in the table below.                                                                                                                                                                                                                          |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
|                                                                     | <b>Outfall Number</b>                                                                                                                                                                                                                                                                                   | <b>Receiving Water Name</b>       | <b>Latitude</b>                                                                                                                                                                              |                                                    |               | <b>Longitude</b>                            |                                                                         |
|                                                                     | DSN02A1                                                                                                                                                                                                                                                                                                 | Mulberry Creek to Tennessee River | 34°                                                                                                                                                                                          | 46'                                                | 10" N         | 87°                                         | 53' 46" W                                                               |
|                                                                     |                                                                                                                                                                                                                                                                                                         |                                   | °                                                                                                                                                                                            | '                                                  | "             | °                                           | '                                                                       |
|                                                                     |                                                                                                                                                                                                                                                                                                         |                                   | °                                                                                                                                                                                            | '                                                  | "             | °                                           | '                                                                       |
| <b>SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))</b>                |                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
| <b>Line Drawing</b>                                                 | 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.)<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
| <b>SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))</b> |                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
| <b>Average Flows and Treatment</b>                                  | 3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.                                                                                                                                                                     |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
|                                                                     | <b>**Outfall Number**</b> DSN02A1                                                                                                                                                                                                                                                                       |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
|                                                                     | <b>Operations Contributing to Flow</b>                                                                                                                                                                                                                                                                  |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
|                                                                     | <b>Operation</b>                                                                                                                                                                                                                                                                                        |                                   |                                                                                                                                                                                              |                                                    |               | <b>Average Flow</b>                         |                                                                         |
|                                                                     | 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                                         |                                                                         |
|                                                                     | <b>Treatment Units</b>                                                                                                                                                                                                                                                                                  |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
|                                                                     | <b>Description</b><br>(include size, flow rate through each treatment unit, retention time, etc.)                                                                                                                                                                                                       |                                   |                                                                                                                                                                                              |                                                    |               | <b>Code from Table 2C-1</b>                 | <b>Final Disposal of Solid or Liquid Wastes Other Than by Discharge</b> |
| See Sections 1.1 and 1.2 of the permit renewal application.         |                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                                                                                              |                                                    | 1-T, 1-U, 4-A | 5Q                                          |                                                                         |
|                                                                     |                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
|                                                                     |                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |
|                                                                     |                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                                                                                              |                                                    |               |                                             |                                                                         |



|                                           |  |                                  |                                                    |                                             |
|-------------------------------------------|--|----------------------------------|----------------------------------------------------|---------------------------------------------|
| EPA Identification Number<br>ALR000029868 |  | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|--|----------------------------------|----------------------------------------------------|---------------------------------------------|

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

|                                           |                                  |                                                    |                                             |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|
| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Form Approved 03/05/19<br>OMB No. 2040-0004 |
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**SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))**

|                           |     |                                                                                                                                                                                                                                                            |                              |                          |                            |                          |                      |                 |
|---------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|----------------------------|--------------------------|----------------------|-----------------|
| <b>Intermittent Flows</b> | 4.1 | Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal?<br><input checked="" type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No → SKIP to Section 5.</span> |                              |                          |                            |                          |                      |                 |
|                           | 4.2 | Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.                                                                                                                                  |                              |                          |                            |                          |                      |                 |
|                           |     | <b>Outfall Number</b>                                                                                                                                                                                                                                      | <b>Operation (list)</b>      | <b>Frequency</b>         |                            | <b>Flow Rate</b>         |                      | <b>Duration</b> |
|                           |     |                                                                                                                                                                                                                                                            |                              | <b>Average Days/Week</b> | <b>Average Months/Year</b> | <b>Long-Term Average</b> | <b>Maximum Daily</b> |                 |
|                           |     | DSN02A1                                                                                                                                                                                                                                                    | Fire pump testing            | 1 days/week              | 12 months/year             | 0.053 mgd                | 0.053 mgd            | 1 days          |
|                           |     |                                                                                                                                                                                                                                                            | Paper Machine Overflow       | Emergency days/week      | NA months/year             | 0.24 mgd                 | 0.24 mgd             | 1 days          |
|                           |     |                                                                                                                                                                                                                                                            | 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          |
|                           |     |                                                                                                                                                                                                                                                            | Boiler area waters           | <1 days/week             | <1 months/year             | 0.09 mgd                 | 0.09 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))**

|                                     |     |                                                                                                                                                                                                                                                           |                                                                   |                            |
|-------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------|
| <b>Applicable ELGs</b>              | 5.1 | Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility?<br><input checked="" type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No → SKIP to Section 6.</span> |                                                                   |                            |
|                                     | 5.2 | Provide the following information on applicable ELGs.                                                                                                                                                                                                     |                                                                   |                            |
|                                     |     | <b>ELG Category</b>                                                                                                                                                                                                                                       | <b>ELG Subcategory</b>                                            | <b>Regulatory Citation</b> |
|                                     |     | Pulp, Paper, and Paperboard Point                                                                                                                                                                                                                         | Secondary Fiber Deink Subcategory                                 | 40 CFR 430, Subpart I      |
|                                     |     |                                                                                                                                                                                                                                                           |                                                                   |                            |
| <b>Production-Based Limitations</b> | 5.3 | Are any of the applicable ELGs expressed in terms of production (or other measure of operation)?<br><input checked="" type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No → SKIP to Section 6.</span>                     |                                                                   |                            |
|                                     | 5.4 | Provide an actual measure of daily production expressed in terms and units of applicable ELGs.                                                                                                                                                            |                                                                   |                            |
|                                     |     | <b>Outfall Number</b>                                                                                                                                                                                                                                     | <b>Operation, Product, or Material</b>                            | <b>Quantity per Day</b>    |
|                                     |     |                                                                                                                                                                                                                                                           | <b>Unit of Measure</b>                                            |                            |
|                                     |     | DSN02A1                                                                                                                                                                                                                                                   | 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? |                                                            |                                                    |           |
|                              | <input type="checkbox"/> Yes                    |                                                                                                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> 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<br>(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>                                                                               |                                                            |                                                    |           |
| <input type="checkbox"/> Yes |                                                 | <input type="checkbox"/> No                                                                                                                                                                                                                                                                       |                                                            | <input checked="" type="checkbox"/> 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. |                                                                                                                                                                                       |                                                                                                                                 |                                                                          |  |
|                                         | <b>Table A. Conventional and Non-Conventional Pollutants</b>                                                                                                                            |                                                                                                                                                                                       |                                                                                                                                 |                                                                          |  |
|                                         | 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?                                                  |                                                                                                                                 |                                                                          |  |
|                                         | <input type="checkbox"/> Yes                                                                                                                                                            |                                                                                                                                                                                       | <input checked="" type="checkbox"/> 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?     |                                                                                                                                 |                                                                          |  |
|                                         | <input checked="" type="checkbox"/> Yes                                                                                                                                                 |                                                                                                                                                                                       | <input type="checkbox"/> No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls. |                                                                          |  |
|                                         | <b>Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants</b>                                                                                                      |                                                                                                                                                                                       |                                                                                                                                 |                                                                          |  |
|                                         | 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.) |                                                                                                                                 |                                                                          |  |
| <input checked="" type="checkbox"/> Yes |                                                                                                                                                                                         | <input type="checkbox"/> 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?                                                                           |                                                                                                                                                                                       |                                                                                                                                 |                                                                          |  |
| <input checked="" type="checkbox"/> Yes |                                                                                                                                                                                         | <input type="checkbox"/> 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)<br>(Check applicable boxes.)                                                                                                                               |                                                                                                                                 |                                                                          |  |
|                                         | Pulp, Paper, and Paperboard / Secondary Fiber Deink                                                                                                                                     | <input checked="" type="checkbox"/> Volatile                                                                                                                                          | <input checked="" type="checkbox"/> Acid                                                                                        | <input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide |  |
|                                         |                                                                                                                                                                                         | <input type="checkbox"/> Volatile                                                                                                                                                     | <input type="checkbox"/> Acid                                                                                                   | <input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide |  |
|                                         |                                                                                                                                                                                         | <input type="checkbox"/> Volatile                                                                                                                                                     | <input type="checkbox"/> Acid                                                                                                   | <input type="checkbox"/> Base/Neutral <input type="checkbox"/> 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                                   |    |
|                                                              | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                                      |    |
|                                                              | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>       |    |
|                                                              | 7.10                                                          | Does the applicant qualify for a small business exemption under the criteria specified in the instructions?<br><input type="checkbox"/> Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. <span style="float: right;"><input checked="" type="checkbox"/> No</span>                                                                                                                        |    |
|                                                              | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span> |    |
|                                                              | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                                                  |    |
|                                                              | 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"?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                          |    |
|                                                              | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                                                  |    |
|                                                              | 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?<br><input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>                                                                                                                                    |    |
|                                                              | 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?<br><input type="checkbox"/> Yes → Complete Table E. <span style="float: right;"><input checked="" type="checkbox"/> No → SKIP to Section 8.</span>                                                              |    |
|                                                              | 7.17                                                          | Have you completed Table E by reporting <i>qualitative</i> data for TCDD?<br><input type="checkbox"/> Yes <span style="float: right;"><input checked="" type="checkbox"/> No</span>                                                                                                                                                                                                                                 |    |
| 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?<br><input type="checkbox"/> Yes <span style="float: right;"><input checked="" type="checkbox"/> No → SKIP to Section 9.</span>                                                                                                                 |    |
|                                                              | 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?<br><br><input type="checkbox"/> Yes <span style="margin-left: 100px;"><input checked="" type="checkbox"/> No → SKIP to Section 10.</span> |                    |                                                          |
|                           | 9.2 | Identify the tests and their purposes below.                                                                                                                                                                                                                                                                                                                                       |                    |                                                          |
|                           |     | Test(s)                                                                                                                                                                                                                                                                                                                                                                            | Purpose of Test(s) | Submitted to NPDES Permitting Authority?                 |
|                           |     |                                                                                                                                                                                                                                                                                                                                                                                    |                    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                           |     |                                                                                                                                                                                                                                                                                                                                                                                    |                    | <input type="checkbox"/> Yes <input type="checkbox"/> 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?<br><br><input checked="" type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No → SKIP to Section 11.</span> |                                              |                     |
|                   | 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<br>Pensacola, FL 32514                                                                                                                                                                                                      | 3103 Northington Court<br>Florence, AL 35630 |                     |
|                   | Phone number            | (850) 474-1001                                                                                                                                                                                                                                  | (256) 740-5532                               |                     |

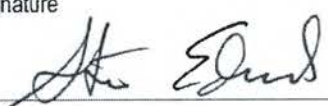
  

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

|                        |      |                                                                                                                                                                                                                |  |  |
|------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Additional Information | 11.1 | Has the NPDES permitting authority requested additional information?<br><br><input type="checkbox"/> Yes <span style="margin-left: 100px;"><input checked="" type="checkbox"/> No → SKIP to Section 12.</span> |  |  |
|                        | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 1: Outfall Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 2: Line Drawing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> w/ line drawing <input type="checkbox"/> w/ additional attachments                                                                                                                                                                                                                                                                                                                                                                     |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 3: Average Flows and Treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> w/ attachments <input type="checkbox"/> w/ list of each user of privately owned treatment works                                                                                                                                                                                                                                                                                                                                                   |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 4: Intermittent Flows                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 5: Production                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 6: Improvements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> w/ attachments <input type="checkbox"/> w/ optional additional sheets describing any additional pollution control plans                                                                                                                                                                                                                                                                                                                           |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 7: Effluent and Intake Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> w/ request for a waiver and supporting information<br><input type="checkbox"/> w/ small business exemption request<br><input checked="" type="checkbox"/> w/ Table A <input checked="" type="checkbox"/> w/ Table B<br><input checked="" type="checkbox"/> w/ Table C <input checked="" type="checkbox"/> w/ Table D<br><input checked="" type="checkbox"/> w/ Table E <input checked="" type="checkbox"/> w/ analytical results as an attachment |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 8: Used or Manufactured Toxics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 9: Biological Toxicity Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 10: Contract Analyses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 11: Additional Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                       | <input checked="" type="checkbox"/>                                                 | Section 12: Checklist and Certification Statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                       | 12.2                                                                                | <b>Certification Statement</b><br><br><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))<sup>1</sup>**

| Pollutant                                                                                                                                                                            | Waiver Requested<br>(if applicable) | Units<br>(specify) | Effluent                              |                                             |                                                     |                    | Intake<br>(Optional)    |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|---------------------------------------|---------------------------------------------|-----------------------------------------------------|--------------------|-------------------------|--------------------|
|                                                                                                                                                                                      |                                     |                    | Maximum Daily Discharge<br>(required) | Maximum Monthly Discharge<br>(if available) | Long-Term Average Daily Discharge<br>(if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| <input type="checkbox"/> 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 <sub>5</sub> )                                                                                                                                     | <input type="checkbox"/>            | Concentration      | mg/l                                  | 34.7                                        |                                                     |                    | 1                       |                    |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | 920.3                                       |                                                     |                    | 1                       |                    |
| 2. Chemical oxygen demand (COD)                                                                                                                                                      | <input type="checkbox"/>            | Concentration      | mg/l                                  | ND                                          |                                                     |                    | 1                       |                    |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | ND                                          |                                                     |                    | 1                       |                    |
| 3. Total organic carbon (TOC)                                                                                                                                                        | <input type="checkbox"/>            | Concentration      | mg/l                                  | 4.37                                        |                                                     |                    | 1                       |                    |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | 116                                         |                                                     |                    | 1                       |                    |
| 4. Total suspended solids (TSS)                                                                                                                                                      | <input type="checkbox"/>            | Concentration      | mg/l                                  | 14.2                                        |                                                     |                    | 1                       |                    |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | 377                                         |                                                     |                    | 1                       |                    |
| 5. Ammonia (as N)                                                                                                                                                                    | <input type="checkbox"/>            | Concentration      | mg/l                                  | ND                                          |                                                     |                    | 1                       |                    |
|                                                                                                                                                                                      |                                     | Mass               | lbs/day                               | ND                                          |                                                     |                    | 1                       |                    |
| 6. Flow                                                                                                                                                                              | <input type="checkbox"/>            | Rate               | MGD                                   | 3.18                                        |                                                     |                    | 1                       |                    |
| 7. Temperature (winter)                                                                                                                                                              | <input type="checkbox"/>            | °C                 | °C                                    | NA                                          |                                                     |                    | NA                      |                    |
|                                                                                                                                                                                      | <input type="checkbox"/>            | °C                 | °C                                    | 26                                          |                                                     |                    | 1                       |                    |
| 8. pH (minimum)                                                                                                                                                                      | <input type="checkbox"/>            | Standard units     | s.u.                                  | 7.42                                        |                                                     |                    | 1                       |                    |
|                                                                                                                                                                                      | <input type="checkbox"/>            | Standard units     | s.u.                                  | 7.42                                        |                                                     |                    | 1                       |                    |

<sup>1</sup> 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))<sup>1</sup>**

|                                                            | Pollutant/Parameter<br>(and CAS Number, if available)                                                                                                                                                                                                                                                                                                                               | Testing<br>Required                 | Presence or Absence<br>(check one) |                          | Units<br>(specify) | Effluent                                    |                                                   |                                                              |                          | Intake<br>(optional)              |                          |  |  |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------|--------------------------|--------------------|---------------------------------------------|---------------------------------------------------|--------------------------------------------------------------|--------------------------|-----------------------------------|--------------------------|--|--|
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     | Believed<br>Present                | Believed<br>Absent       |                    | Maximum<br>Daily<br>Discharge<br>(required) | Maximum<br>Monthly<br>Discharge<br>(if available) | Long-Term<br>Average<br>Daily<br>Discharge<br>(if available) | Number<br>of<br>Analyses | Long-<br>Term<br>Average<br>Value | Number<br>of<br>Analyses |  |  |
| <input type="checkbox"/>                                   | 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. |                                     |                                    |                          |                    |                                             |                                                   |                                                              |                          |                                   |                          |  |  |
| <b>Section 1. Toxic Metals, Cyanide, and Total Phenols</b> |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          |                    |                                             |                                                   |                                                              |                          |                                   |                          |  |  |
| 1.1                                                        | Antimony, total<br>(7440-36-0)                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | mg/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |
| 1.2                                                        | Arsenic, total<br>(7440-38-2)                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | mg/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |
| 1.3                                                        | Beryllium, total<br>(7440-41-7)                                                                                                                                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | mg/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |
| 1.4                                                        | Cadmium, total<br>(7440-43-9)                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | mg/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |
| 1.5                                                        | Chromium, total<br>(7440-47-3)                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | ug/l                                        | 5                                                 |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | 0.13                                              |                                                              |                          | 1                                 |                          |  |  |
| 1.6                                                        | Copper, total<br>(7440-50-8)                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | ug/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |
| 1.7                                                        | Lead, total<br>(7439-92-1)                                                                                                                                                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | mg/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |
| 1.8                                                        | Mercury, total<br>(7439-97-6)                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | mg/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |
| 1.9                                                        | Nickel, total<br>(7440-02-0)                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | mg/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |
| 1.10                                                       | Selenium, total<br>(7782-49-2)                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | mg/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |
| 1.11                                                       | Silver, total<br>(7440-22-4)                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>           | <input type="checkbox"/> | Concentration      | mg/l                                        | ND                                                |                                                              |                          | 1                                 |                          |  |  |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                    |                          | Mass               | lbs/day                                     | ND                                                |                                                              |                          | 1                                 |                          |  |  |

|                                           |                                  |                                                    |                           |
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| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Outfall Number<br>DSN02A1 |
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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))<sup>1</sup>**

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

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

|     |                                    |                                     |                          |                          |                    |    |  |  |   |  |  |
|-----|------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------|----|--|--|---|--|--|
| 2.1 | Acrolein<br>(107-02-8)             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration ug/l | ND |  |  | 1 |  |  |
|     |                                    |                                     |                          |                          | Mass lbs/day       | ND |  |  | 1 |  |  |
| 2.2 | Acrylonitrile<br>(107-13-1)        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration ug/l | ND |  |  | 1 |  |  |
|     |                                    |                                     |                          |                          | Mass lbs/day       | ND |  |  | 1 |  |  |
| 2.3 | Benzene<br>(71-43-2)               | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration ug/l | ND |  |  | 1 |  |  |
|     |                                    |                                     |                          |                          | Mass lbs/day       | ND |  |  | 1 |  |  |
| 2.4 | Bromoform<br>(75-25-2)             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration ug/l | ND |  |  | 1 |  |  |
|     |                                    |                                     |                          |                          | Mass lbs/day       | ND |  |  | 1 |  |  |
| 2.5 | Carbon tetrachloride<br>(56-23-5)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration ug/l | ND |  |  | 1 |  |  |
|     |                                    |                                     |                          |                          | Mass lbs/day       | ND |  |  | 1 |  |  |
| 2.6 | Chlorobenzene<br>(108-90-7)        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration ug/l | ND |  |  | 1 |  |  |
|     |                                    |                                     |                          |                          | Mass lbs/day       | ND |  |  | 1 |  |  |
| 2.7 | Chlorodibromomethane<br>(124-48-1) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Concentration ug/l | ND |  |  | 1 |  |  |
|     |                                    |                                     |                          |                          | Mass lbs/day       | ND |  |  | 1 |  |  |
| 2.8 | Chloroethane<br>(75-00-3)          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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))<sup>1</sup>**

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

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

|                                           |                                  |                                                    |                           |
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| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Outfall Number<br>DSN02A1 |
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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))<sup>1</sup>**

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

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



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

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



|                                           |                                  |                                                    |                           |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------|
| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Outfall Number<br>DSN02A1 |
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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))<sup>1</sup>**

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



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

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

|                                           |                                  |                                                    |                           |
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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))<sup>1</sup>**

|      | Pollutant/Parameter<br>(and CAS Number, if available) | Testing<br>Required      | Presence or Absence<br>(check one) |                                     | Units<br>(specify) |  | Effluent                                    |                                                   |                                                              |                          | Intake<br>(optional)              |                          |
|------|-------------------------------------------------------|--------------------------|------------------------------------|-------------------------------------|--------------------|--|---------------------------------------------|---------------------------------------------------|--------------------------------------------------------------|--------------------------|-----------------------------------|--------------------------|
|      |                                                       |                          | Believed<br>Present                | Believed<br>Absent                  |                    |  | Maximum<br>Daily<br>Discharge<br>(required) | Maximum<br>Monthly<br>Discharge<br>(if available) | Long-Term<br>Average<br>Daily<br>Discharge<br>(if available) | Number<br>of<br>Analyses | Long-<br>Term<br>Average<br>Value | Number<br>of<br>Analyses |
|      |                                                       |                          |                                    |                                     |                    |  |                                             |                                                   |                                                              |                          |                                   |                          |
| 5.25 | Toxaphene<br>(8001-35-2)                              | <input type="checkbox"/> | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |  |                                             |                                                   |                                                              |                          |                                   |                          |
|      |                                                       |                          |                                    |                                     | Mass               |  |                                             |                                                   |                                                              |                          |                                   |                          |

<sup>1</sup> 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))<sup>1</sup>**

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

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

| Pollutant                | Presence or Absence<br>(check one) |                                     | Units<br>(specify) | Effluent                                 |                                                   |                                                           |                       | Intake<br>(Optional)          |                       |
|--------------------------|------------------------------------|-------------------------------------|--------------------|------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|-----------------------|-------------------------------|-----------------------|
|                          | Believed<br>Present                | Believed<br>Absent                  |                    | Maximum Daily<br>Discharge<br>(required) | Maximum<br>Monthly<br>Discharge<br>(if available) | Long-Term<br>Average Daily<br>Discharge<br>(if available) | Number of<br>Analyses | Long-Term<br>Average<br>Value | Number of<br>Analyses |
| <b>24. Radioactivity</b> |                                    |                                     |                    |                                          |                                                   |                                                           |                       |                               |                       |
| Alpha, total             | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |                                          |                                                   |                                                           |                       |                               |                       |
|                          |                                    |                                     | Mass               |                                          |                                                   |                                                           |                       |                               |                       |
| Beta, total              | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |                                          |                                                   |                                                           |                       |                               |                       |
|                          |                                    |                                     | Mass               |                                          |                                                   |                                                           |                       |                               |                       |
| Radium, total            | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |                                          |                                                   |                                                           |                       |                               |                       |
|                          |                                    |                                     | Mass               |                                          |                                                   |                                                           |                       |                               |                       |
| Radium 226, total        | <input type="checkbox"/>           | <input checked="" type="checkbox"/> | Concentration      |                                          |                                                   |                                                           |                       |                               |                       |
|                          |                                    |                                     | Mass               |                                          |                                                   |                                                           |                       |                               |                       |

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

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

|                                           |                                  |                                                    |                           |
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))<sup>1</sup>**

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



|                                           |                                  |                                                    |                           |
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))<sup>1</sup>**

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

|                                           |                                  |                                                    |                           |
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))<sup>1</sup>**

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

|                                           |                                  |                                                    |                           |
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))<sup>1</sup>**

|     | Pollutant     | Presence or Absence<br>(check one) |                                     | Reason Pollutant Believed Present in Discharge | Available Quantitative Data<br>(specify units) |
|-----|---------------|------------------------------------|-------------------------------------|------------------------------------------------|------------------------------------------------|
|     |               | Believed Present                   | Believed Absent                     |                                                |                                                |
| 77. | Vinyl acetate | <input type="checkbox"/>           | <input checked="" type="checkbox"/> |                                                |                                                |
| 78. | Xylene        | <input type="checkbox"/>           | <input checked="" type="checkbox"/> |                                                |                                                |
| 79. | Xylenol       | <input type="checkbox"/>           | <input checked="" type="checkbox"/> |                                                |                                                |
| 80. | Zirconium     | <input type="checkbox"/>           | <input checked="" type="checkbox"/> |                                                |                                                |

<sup>1</sup> 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<br>(check one) |                                     | Results of Screening Procedure |
|--------------|-------------------------------------|------------------------------------|-------------------------------------|--------------------------------|
|              |                                     | Believed Present                   | Believed Absent                     |                                |
| 2,3,7,8-TCDD | <input type="checkbox"/>            | <input type="checkbox"/>           | <input checked="" type="checkbox"/> |                                |

## Appendix E EPA Form 2F – Outfall DSN002

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Water Permits Division

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# 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<br>ALR000029868                | NPDES Permit Number<br>AL0074667                                                                                                                                                                                                                                                                                                 | Facility Name<br>Essity Professional Hygiene North                                                                                                                                                                                                                                                                                                                                                                                         | Form Approved 03/05/19<br>OMB No. 2040-0004                                                                                                                                   |                                  |
| Form<br>2F<br>NPDES                                      |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>U.S Environmental Protection Agency</b><br><b>Application for NPDES Permit to Discharge Wastewater</b><br><b>STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY</b> |                                  |
| <b>SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))</b> |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                               |                                  |
| Outfall Location                                         | 1.1                                                                                                                                                                                                                                                                                                                              | Provide information on each of the facility's outfalls in the table below                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                               |                                  |
|                                                          | <b>Outfall Number</b>                                                                                                                                                                                                                                                                                                            | <b>Receiving Water Name</b>                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Latitude</b>                                                                                                                                                               | <b>Longitude</b>                 |
|                                                          | DSN002                                                                                                                                                                                                                                                                                                                           | Mulberry Creek (to                                                                                                                                                                                                                                                                                                                                                                                                                         | 34° 46' 10" N                                                                                                                                                                 | 87° 53' 46" W                    |
|                                                          |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            | ° ' " N                                                                                                                                                                       | ° ' " W                          |
|                                                          |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            | ° ' " N                                                                                                                                                                       | ° ' " W                          |
|                                                          |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            | ° ' " N                                                                                                                                                                       | ° ' " W                          |
|                                                          |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            | ° ' " N                                                                                                                                                                       | ° ' " W                          |
|                                                          |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            | ° ' " N                                                                                                                                                                       | ° ' " W                          |
| <b>SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))</b>     |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                               |                                  |
| 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?<br><br><input type="checkbox"/> Yes <span style="margin-left: 100px;"><input checked="" type="checkbox"/> No → SKIP to Section 3.</span> |                                                                                                                                                                               |                                  |
|                                                          | 2.2                                                                                                                                                                                                                                                                                                                              | Briefly identify each applicable project in the table below.                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                               |                                  |
|                                                          | <b>Brief Identification and Description of Project</b>                                                                                                                                                                                                                                                                           | <b>Affected Outfalls</b><br><small>(list outfall numbers)</small>                                                                                                                                                                                                                                                                                                                                                                          | <b>Source(s) of Discharge</b>                                                                                                                                                 | <b>Final Compliance Dates</b>    |
|                                                          |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                               | <b>Required</b> <b>Projected</b> |
|                                                          |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                               |                                  |
|                                                          |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                               |                                  |
|                                                          |                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                               |                                  |
| 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)<br><br><input type="checkbox"/> Yes <span style="margin-left: 100px;"><input checked="" type="checkbox"/> No</span> |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                               |                                  |

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

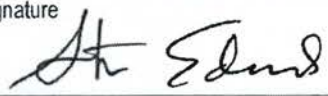
|                         |                                         |                                                                                                                                          |
|-------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Site<br>Drainage<br>Map | 3.1                                     | Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.) |
|                         | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> 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<br>(within a mile radius of the facility)                                                                                                                                                                                                                                                                                                                                                  |                        | Total Surface Area Drained<br>(within a mile radius of the facility) |                      |  |  |                |                                |                                |        |                                    |           |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |
|                      |                                    | DSN002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 65                                                                                                                                                                                                                                                                                                                                                                                                                 | specify units<br>acres | 142<br>specify units<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)</p> <p>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.</p> <p>The facility maintains SPCC and BMP Plans.</p> |                        |                                                                      |                      |  |  |                |                                |                                |        |                                    |           |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |
|                      | 4.3                                | <p>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.)</p> <table border="1"> <tr> <th colspan="3">Stormwater Treatment</th> </tr> <tr> <th>Outfall Number</th> <th>Control Measures and Treatment</th> <th>Codes from Exhibit 2F-1 (list)</th> </tr> <tr> <td>DSN002</td> <td>Containment dikes, sediment basins</td> <td>1-U, 1-T,</td> </tr> <tr> <td></td> <td></td> <td>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) | DSN002 | Containment dikes, sediment basins | 1-U, 1-T, |  |  | 4-A |  |  |  |  |  |  |  |  |  |  |  |  |
| 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?                                                                                                                                                               |
|                       |                                                                                                                                                                                         | <input type="checkbox"/> Yes → See instructions regarding submission of <i>estimated</i> data. <input checked="" type="checkbox"/> 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?                                                                                                                                                         |
|                       |                                                                                                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|                                 | 7.5                                                                                                                                             | Do you know or have reason to believe any pollutants in Exhibit 2F-2 are present in the discharge?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                            |
|                                 | 7.7                                                                                                                                             | Do you qualify for a small business exemption under the criteria specified in the Instructions?<br><input type="checkbox"/> Yes → SKIP to Item 7.18. <input checked="" type="checkbox"/> No                                                                                                                             |
|                                 | 7.8                                                                                                                                             | Do you know or have reason to believe any pollutants in Exhibit 2F-3 are present in the discharge?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                             |
|                                 | 7.10                                                                                                                                            | Do you expect any of the pollutants in Exhibit 2F-3 to be discharged in concentrations of 10 ppb or greater?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input type="checkbox"/> 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)?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  |
|                                 | 7.15                                                                                                                                            | Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                  |
| 7.17                            | Have you provided information for the storm event(s) sampled in Table D?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                                                                                                                                                                                                                                                         |

|                                           |                                  |                                                    |                                             |
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|                                        |                                    |                                                                                                                                                                                                                                                                    |    |  |
|----------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|
| <b>Discharge Information Continued</b> | <b>Used or Manufactured Toxics</b> |                                                                                                                                                                                                                                                                    |    |  |
|                                        | 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?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 8. |    |  |
|                                        | 7.19                               | List the pollutants below, including TCDD if applicable.                                                                                                                                                                                                           |    |  |
|                                        | 1.                                 | 4.                                                                                                                                                                                                                                                                 | 7. |  |
|                                        | 2.                                 | 5.                                                                                                                                                                                                                                                                 | 8. |  |
|                                        | 3.                                 | 6.                                                                                                                                                                                                                                                                 | 9. |  |

|                                                                           |     |                                                                                                                                                                                                                                                                                                                              |                                                          |                                                          |
|---------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| <b>SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))</b> |     |                                                                                                                                                                                                                                                                                                                              |                                                          |                                                          |
| <b>Biological Toxicity Testing Data</b>                                   | 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?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?                 |
|                                                                           |     |                                                                                                                                                                                                                                                                                                                              |                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                                                           |     |                                                                                                                                                                                                                                                                                                                              |                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                                                           |     |                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No |                                                          |

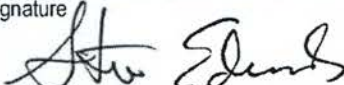
|                                                                        |                         |                                                                                                                                                                                                                            |                                            |                     |
|------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------|
| <b>SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))</b> |                         |                                                                                                                                                                                                                            |                                            |                     |
| <b>Contract Analysis Information</b>                                   | 9.1                     | Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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<br>Florence, AL 35630                                                                                                                                                                               | 3355 McLemore Drive<br>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                       |
|                                       | <input checked="" type="checkbox"/> Section 1                                                    | <input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |
|                                       | <input checked="" type="checkbox"/> Section 2                                                    | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
|                                       | <input checked="" type="checkbox"/> Section 3                                                    | <input type="checkbox"/> w/ site drainage map                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |
|                                       | <input checked="" type="checkbox"/> Section 4                                                    | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
|                                       | <input checked="" type="checkbox"/> Section 5                                                    | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
|                                       | <input checked="" type="checkbox"/> Section 6                                                    | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
|                                       | <input checked="" type="checkbox"/> Section 7                                                    | <input checked="" type="checkbox"/> Table A <input type="checkbox"/> w/ small business exemption request<br><input checked="" type="checkbox"/> Table B <input checked="" type="checkbox"/> w/ analytical results as an attachment<br><input checked="" type="checkbox"/> Table C <input checked="" type="checkbox"/> Table D                                                                                                                                                                                                                                                                                                                                                                               |                                |
|                                       | <input checked="" type="checkbox"/> Section 8                                                    | <input type="checkbox"/> w/attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
|                                       | <input checked="" type="checkbox"/> Section 9                                                    | <input type="checkbox"/> w/attachments (e.g., responses for additional contact laboratories or firms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |
|                                       | <input checked="" type="checkbox"/> Section 10                                                   | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |
|                                       | 10.2                                                                                             | <b>Certification Statement</b><br><br><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)<br>Steve Edwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Official title<br>Site Manager |
|                                       | Signature<br> | Date signed<br>3/05/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |



|                                           |                                  |                                                    |                          |
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**TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))<sup>1</sup>**

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<br>(specify units)      |                            | Average Daily Discharge<br>(specify units)      |                            | Number of Storm<br>Events Sampled | Source of<br>Information<br>(new source/new<br>dischargers only; use<br>codes in instructions) |
|------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|-------------------------------------------------|----------------------------|-----------------------------------|------------------------------------------------------------------------------------------------|
|                        |                                               | Grab Sample Taken<br>During First<br>30 Minutes | Flow-Weighted<br>Composite | Grab Sample Taken<br>During First<br>30 Minutes | Flow-Weighted<br>Composite |                                   |                                                                                                |
| 1.                     | Oil and grease                                | ND                                              |                            | ND                                              |                            | 1                                 |                                                                                                |
| 2.                     | Biochemical oxygen demand (BOD <sub>5</sub> ) | 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                                 |                                                                                                |

<sup>1</sup> 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.

<sup>1</sup> 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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|                                           |                                  |                                                    |                          |
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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<br>(in hours) | Total Rainfall During<br>Storm Event<br>(in inches) | Number of Hours Between<br>Beginning of Storm Measured and<br>End of Previous Measurable Rain<br>Event | Maximum Flow Rate<br>During Rain Event<br>(in gpm or specify units) | Total Flow from Rain Event<br>(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<br>ALR000029868                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                       | NPDES Permit Number<br>AL0074667                                                                                                                                              |                               | Facility Name<br>Essity Professional Hygiene North |                               | Form Approved 03/05/19<br>OMB No. 2040-0004 |           |
| Form<br>2F<br>NPDES                                                                                                                                                                                              |                                                                                                                                                                                                                      | <b>U.S Environmental Protection Agency</b><br><b>Application for NPDES Permit to Discharge Wastewater</b><br><b>STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY</b> |                               |                                                    |                               |                                             |           |
| <b>SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))</b>                                                                                                                                                         |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |
| <b>Outfall Location</b>                                                                                                                                                                                          | 1.1 Provide information on each of the facility's outfalls in the table below                                                                                                                                                                                                                         |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |
|                                                                                                                                                                                                                  | <b>Outfall Number</b>                                                                                                                                                                                                                                                                                 | <b>Receiving Water Name</b>                                                                                                                                                   | <b>Latitude</b>               |                                                    |                               | <b>Longitude</b>                            |           |
|                                                                                                                                                                                                                  | DSN003                                                                                                                                                                                                                                                                                                | UT to Mulberry Creek (to Tennessee River)                                                                                                                                     | 34°                           | 45'                                                | 48" N                         | 87°                                         | 53' 40" W |
|                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               | °                             | '                                                  | "                             | °                                           | ' "       |
|                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               | °                             | '                                                  | "                             | °                                           | ' "       |
|                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               | °                             | '                                                  | "                             | °                                           | ' "       |
|                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               | °                             | '                                                  | "                             | °                                           | ' "       |
|                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               | °                             | '                                                  | "                             | °                                           | ' "       |
| <b>SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))</b>                                                                                                                                                             |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |
| <b>Improvements</b>                                                                                                                                                                                              | 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? |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |
|                                                                                                                                                                                                                  | <input type="checkbox"/> Yes <span style="margin-left: 200px;"><input checked="" type="checkbox"/> No → SKIP to Section 3.</span>                                                                                                                                                                     |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |
|                                                                                                                                                                                                                  | 2.2 Briefly identify each applicable project in the table below.                                                                                                                                                                                                                                      |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |
|                                                                                                                                                                                                                  | <b>Brief Identification and Description of Project</b>                                                                                                                                                                                                                                                | <b>Affected Outfalls<br/>(list outfall numbers)</b>                                                                                                                           | <b>Source(s) of Discharge</b> |                                                    | <b>Final Compliance Dates</b> |                                             |           |
|                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               |                               |                                                    | <b>Required</b>               | <b>Projected</b>                            |           |
|                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |
|                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |
| 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) |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |
| <input type="checkbox"/> Yes <span style="margin-left: 200px;"><input checked="" type="checkbox"/> No</span>                                                                                                     |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                               |                               |                                                    |                               |                                             |           |

|                                           |                                  |                                                    |                                             |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|
| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|

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

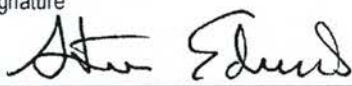
|                         |                                                                     |                                                                                                                                          |
|-------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Site<br>Drainage<br>Map | 3.1                                                                 | Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.) |
|                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                                                                          |

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

|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                             |
|----------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------|
| Pollutant<br>Sources | 4.1 | Provide information on the facility's pollutant sources in the table below.                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                             |
|                      |     | <b>Outfall Number</b>                                                                                                                                                                  | <b>Impervious Surface Area</b><br>(within a mile radius of the facility)                                                                                                                                                                                                                                                                                                                                    |                               | <b>Total Surface Area Drained</b><br>(within a mile radius of the facility) |
|                      |     | DSN003                                                                                                                                                                                 | 15                                                                                                                                                                                                                                                                                                                                                                                                          | <i>specify units</i><br>acres | 65<br><i>specify units</i><br>acres                                         |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             | <i>specify units</i>          | <i>specify units</i>                                                        |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             | <i>specify units</i>          | <i>specify units</i>                                                        |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             | <i>specify units</i>          | <i>specify units</i>                                                        |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             | <i>specify units</i>          | <i>specify units</i>                                                        |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             | <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.)<br><br>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.<br><br>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.) |                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                             |
|                      |     | <b>Stormwater Treatment</b>                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                             |
|                      |     | <b>Outfall Number</b>                                                                                                                                                                  | <b>Control Measures and Treatment</b>                                                                                                                                                                                                                                                                                                                                                                       |                               | <b>Codes from Exhibit 2F-1 (list)</b>                                       |
|                      |     | DSN003                                                                                                                                                                                 | Near plant entrance: runoff through culverts & riprap, containment dikes, sediment basins                                                                                                                                                                                                                                                                                                                   |                               | 1-U, 1-T,                                                                   |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             |                               | 4-A                                                                         |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                             |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                             |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                             |
|                      |     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                                             |

|                                           |                                  |                                                    |                                             |
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| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|----------------------------------|----------------------------------------------------|---------------------------------------------|

### 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?                                                                                                                                                               |
|                       |                                                                                                                                                                                         | <input type="checkbox"/> Yes → See instructions regarding submission of <i>estimated</i> data. <input checked="" type="checkbox"/> 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?                                                                                                                                                         |
|                       |                                                                                                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                  |



|                                           |  |                                  |                                                    |                                             |
|-------------------------------------------|--|----------------------------------|----------------------------------------------------|---------------------------------------------|
| EPA Identification Number<br>ALR000029868 |  | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Form Approved 03/05/19<br>OMB No. 2040-0004 |
|-------------------------------------------|--|----------------------------------|----------------------------------------------------|---------------------------------------------|

|                                 |                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|                                 | 7.5                                                                                                                                             | Do you know or have reason to believe any pollutants in Exhibit 2F-2 are present in the discharge?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                            |
|                                 | 7.7                                                                                                                                             | Do you qualify for a small business exemption under the criteria specified in the Instructions?<br><input type="checkbox"/> Yes → SKIP to Item 7.18. <input checked="" type="checkbox"/> No                                                                                                                             |
|                                 | 7.8                                                                                                                                             | Do you know or have reason to believe any pollutants in Exhibit 2F-3 are present in the discharge?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                             |
|                                 | 7.10                                                                                                                                            | Do you expect any of the pollutants in Exhibit 2F-3 to be discharged in concentrations of 10 ppb or greater?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input type="checkbox"/> 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)?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  |
|                                 | 7.15                                                                                                                                            | Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?<br><input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                  |
| 7.17                            | Have you provided information for the storm event(s) sampled in Table D?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                                                                                                                                                                                                                                                         |

|                                           |                                  |                                                    |                                             |
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|                                        |                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                        |  |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Discharge Information Continued</b> | <b>Used or Manufactured Toxics</b>                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                        |  |
|                                        | 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?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 8. |  |
|                                        | 7.19                                                                                                                                                                                                                                                                                                                                      | List the pollutants below, including TCDD if applicable.                                                                                                                                                                                                               |  |
|                                        | <div style="display: flex; justify-content: space-between;"> <div>1.</div> <div>4.</div> <div>7.</div> </div> <div style="display: flex; justify-content: space-between;"> <div>2.</div> <div>5.</div> <div>8.</div> </div> <div style="display: flex; justify-content: space-between;"> <div>3.</div> <div>6.</div> <div>9.</div> </div> |                                                                                                                                                                                                                                                                        |  |

| SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11)) |     |                                                                                                                                                                                                                                                                                                                                  |                    |                                                          |
|--------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------|
| <b>Biological Toxicity Testing Data</b>                            | 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?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?                 |
|                                                                    |     |                                                                                                                                                                                                                                                                                                                                  |                    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                                                                    |     |                                                                                                                                                                                                                                                                                                                                  |                    | <input type="checkbox"/> Yes <input type="checkbox"/> No |

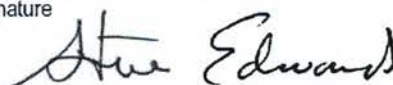
| SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12)) |                                |                                                                                                                                                                                                                                |                                            |                     |
|-----------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------|
| <b>Contract Analysis Information</b>                            | 9.1                            | Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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<br>Florence, AL 35630                                                                                                                                                                                   | 3355 McLemore Drive<br>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                       |
|                                       | <input checked="" type="checkbox"/> Section 1                                                    | <input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |
|                                       | <input checked="" type="checkbox"/> Section 2                                                    | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
|                                       | <input checked="" type="checkbox"/> Section 3                                                    | <input type="checkbox"/> w/ site drainage map                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |
|                                       | <input checked="" type="checkbox"/> Section 4                                                    | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
|                                       | <input checked="" type="checkbox"/> Section 5                                                    | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
|                                       | <input checked="" type="checkbox"/> Section 6                                                    | <input type="checkbox"/> w/ attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
|                                       | <input checked="" type="checkbox"/> Section 7                                                    | <input checked="" type="checkbox"/> Table A <input type="checkbox"/> w/ small business exemption request<br><input checked="" type="checkbox"/> Table B <input checked="" type="checkbox"/> w/ analytical results as an attachment<br><input checked="" type="checkbox"/> Table C <input checked="" type="checkbox"/> Table D                                                                                                                                                                                                                                                                                                                                                                               |                                |
|                                       | <input checked="" type="checkbox"/> Section 8                                                    | <input type="checkbox"/> w/attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |
|                                       | <input checked="" type="checkbox"/> Section 9                                                    | <input type="checkbox"/> w/attachments (e.g., responses for additional contact laboratories or firms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |
|                                       | <input checked="" type="checkbox"/> Section 10                                                   | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |
|                                       | 10.2                                                                                             | <b>Certification Statement</b><br><br><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)<br>Steve Edwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Official title<br>Site Manager |
|                                       | Signature<br> | Date signed<br>3/25/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |



|                                           |                                  |                                                    |                          |
|-------------------------------------------|----------------------------------|----------------------------------------------------|--------------------------|
| EPA Identification Number<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility Name<br>Essity Professional Hygiene North | Outfall Number<br>DSN003 |
|-------------------------------------------|----------------------------------|----------------------------------------------------|--------------------------|

Form Approved 03/05/19  
OMB No. 2040-0004

**TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))<sup>1</sup>**

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<br>(specify units)      |                            | Average Daily Discharge<br>(specify units)      |                            | Number of Storm<br>Events Sampled | Source of<br>Information<br>(new source/new<br>dischargers only; use<br>codes in instructions) |
|------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------|-------------------------------------------------|----------------------------|-----------------------------------|------------------------------------------------------------------------------------------------|
|                        |                                               | Grab Sample Taken<br>During First<br>30 Minutes | Flow-Weighted<br>Composite | Grab Sample Taken<br>During First<br>30 Minutes | Flow-Weighted<br>Composite |                                   |                                                                                                |
| 1.                     | Oil and grease                                | ND                                              |                            | ND                                              |                            | 1                                 |                                                                                                |
| 2.                     | Biochemical oxygen demand (BOD <sub>5</sub> ) | 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                                 |                                                                                                |

<sup>1</sup> 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<br>ALR000029868 | NPDES Permit Number<br>AL0074667 | Facility name<br>Essity Professional Hygiene North | Outfall Number<br>DSN003 |
|-------------------------------------------|----------------------------------|----------------------------------------------------|--------------------------|

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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<br>(in hours) | Total Rainfall During<br>Storm Event<br>(in inches) | Number of Hours Between<br>Beginning of Storm Measured and<br>End of Previous Measurable Rain<br>Event | Maximum Flow Rate<br>During Rain Event<br>(in gpm or specify units) | Total Flow from Rain Event<br>(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



## SAFETY DATA SHEET

**CONQUOR™ CNQR3588**

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

**CONQUOR™ CNQR3588**

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

## SAFETY DATA SHEET

CONQUOR™ CNQR3588

### 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<br>40 mg/m <sup>3</sup> | 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.

## SAFETY DATA SHEET

CONQUOR™ CNQR3588

### 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.                                    |



## SAFETY DATA SHEET

CONQUOR™ CNQR3588

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

## SAFETY DATA SHEET

CONQUOR™ CNQR3588

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

## SAFETY DATA SHEET

**CONQUOR™ CNQR3588**

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

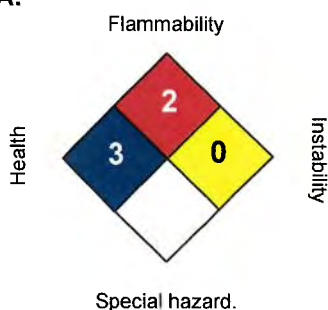
All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

#### 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](http://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 CO<sub>2</sub>. 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.

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Form</b>                           | Liquid             |
| <b>Odor</b>                           | Amine              |
| <b>Color</b>                          | Clear light yellow |
| <b>Density @ 25°C (77°F)</b>          | 7.95 lb/gal        |
| <b>Specific Gravity @ 25°C (77°F)</b> | 0.95               |
| <b>Solubility in Water</b>            | Complete           |
| <b>pH 100% (typical)</b>              | 12.9               |
| <b>Boiling Point</b>                  | 96°C (205°F)       |
| <b>Flash Point (PMCC)</b>             | 70°C (158°F)       |
| <b>Vapor Pressure @ 25°C (68°F)</b>   | 24.8 mm Hg         |
| <b>VOC (EPA Method 24)</b>            | 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 <sub>5</sub> ) 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  
1601 West Diehl Road  
Naperville, Illinois 60563 USA

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8304 Wallisellen  
Switzerland

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#02-20  
The Strategy Tower 2  
Singapore 609930

Greater China  
166, Lane 168  
Da Du He Road  
Shanghai, China 200062

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

Middle East and Africa  
Street 1010  
Near Container Terminal 3  
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PO BOX 262095, Dubai UAE

[ecolab.com/nalco-water](http://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

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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 <sup>3</sup> , 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

## SAFETY DATA SHEET

**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**

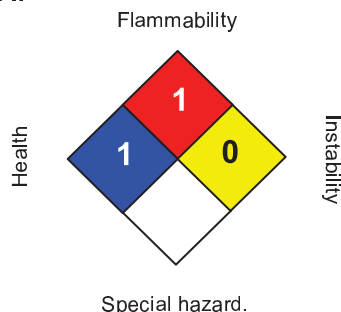
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

### 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](http://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.                                                |

## SAFETY DATA SHEET

### NALCON® 10WB

|                                               |                                                                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
|------------|---------|------------------|---------------------------|-------|
|------------|---------|------------------|---------------------------|-------|

## SAFETY DATA SHEET

### NALCON® 10WB

|                  |         |     |          |      |
|------------------|---------|-----|----------|------|
| Propylene Glycol | 57-55-6 | TWA | 10 mg/m3 | WEEL |
|------------------|---------|-----|----------|------|

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

## SAFETY DATA SHEET

### NALCON® 10WB

|                                        |                                                  |
|----------------------------------------|--------------------------------------------------|
| 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)<br>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.<br><br>Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.<br>Strong bases<br>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:<br>Carbon oxides<br>nitrogen oxides (NOx)<br>Sulphur oxides<br>Oxides of phosphorus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### 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  | : Toxic if swallowed. Causes digestive tract burns.                                         |
| Inhalation | : Harmful if inhaled. May cause nose, throat, and lung irritation.                          |



## SAFETY DATA SHEET

### NALCON® 10WB

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

## SAFETY DATA SHEET

### NALCON® 10WB

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

## SAFETY DATA SHEET

### NALCON® 10WB

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.<br>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.<br>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       |

## SAFETY DATA SHEET

### NALCON® 10WB

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.



## SAFETY DATA SHEET

### NALCON® 10WB

#### 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

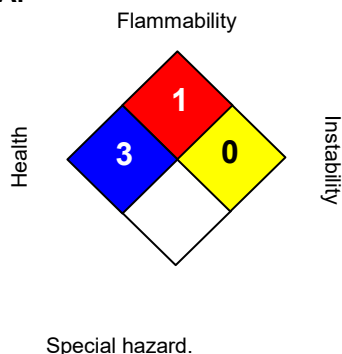
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

#### 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](http://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.

## SAFETY DATA SHEET

**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.



## SAFETY DATA SHEET

**NALKAT® 7655**

- 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

## SAFETY DATA SHEET

### NALKAT® 7655

|                                         |                                                |
|-----------------------------------------|------------------------------------------------|
| 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<br>nitrogen oxides (NOx)<br>Hydrogen chloride                                                                                                                                |

### Section: 11. TOXICOLOGICAL INFORMATION

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

## SAFETY DATA SHEET

**NALKAT® 7655**

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

## SAFETY DATA SHEET

**NALKAT® 7655**

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



## SAFETY DATA SHEET

**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.

## SAFETY DATA SHEET

**NALKAT® 7655**

### 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

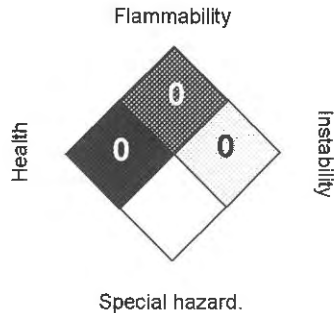
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

#### 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](http://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.

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### 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.

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### 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

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|                                        |                         |
|----------------------------------------|-------------------------|
| 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.<br>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:<br>Carbon oxides<br>nitrogen oxides (NOx)<br>Sulphur oxides                                                     |

### Section: 11. TOXICOLOGICAL INFORMATION

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



## 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  
5 d

Value  
6,200 mg/l

Test Descriptor  
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).



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**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

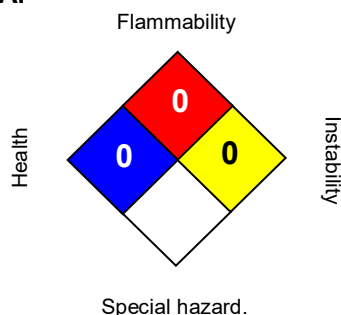
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

### 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](http://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 <sup>3</sup> , 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:<br>Carbon oxides<br>nitrogen oxides (NO <sub>x</sub> )<br>Sulphur oxides<br>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

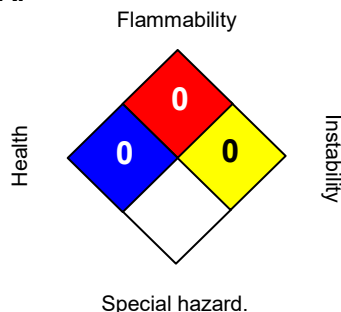
All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

## 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](http://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 <sup>3</sup> |
| 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:<br>Carbon oxides<br>nitrogen oxides (NO <sub>x</sub> )<br>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. |
|------|---------------------------------------------------------------|

## 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

### SCALE-GUARD™ PLUS 60123

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

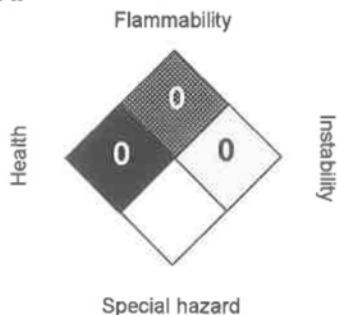
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

#### 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](http://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.<br>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.<br>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.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : Neutralise with acid.<br>Soak up with inert absorbent material (e.g. sand, silica gel,                                                                                                  |

## Safety Data Sheet

### SODIUM HYPOCHLORITE 10-16%

Version 1.7

Revision Date: 03/25/2020

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<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|-----------|---------------------|----------------------------------|------------------------------------------------|-----------|
| 7681-52-9 | Sodium hypochlorite | STEL                             | 2 mg/m <sup>3</sup>                            | US WEEL   |
| 1310-73-2 | Sodium hydroxide    | C                                | 2 mg/m <sup>3</sup>                            | ACGIH     |
|           |                     | C                                | 2 mg/m <sup>3</sup>                            | NIOSH REL |
|           |                     | TWA                              | 2 mg/m <sup>3</sup>                            | OSHA Z-1  |
|           |                     | C                                | 2 mg/m <sup>3</sup>                            | 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%

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problems.

- |                          |   |                                                                                                                                       |
|--------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------|
| Skin and body protection | : | Impervious clothing<br>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.<br>When using do not smoke.<br>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)<br>Decomposition                      |
| Flash point                                   | : | Not applicable                                           |
| Evaporation rate                              | : | < 1<br>(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)<br>Reference substance: (water = 1) |
| Density                                       | : | No data available                                        |
| Solubility(ies)<br>Water solubility           | : | completely soluble                                       |
| Solubility in other solvents                  | : | No data available                                        |
| Partition coefficient: n-                     | : | No data available                                        |

## Safety Data Sheet

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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

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: &gt; 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

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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

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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<br>(lbs) | Calculated product RQ<br>(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%

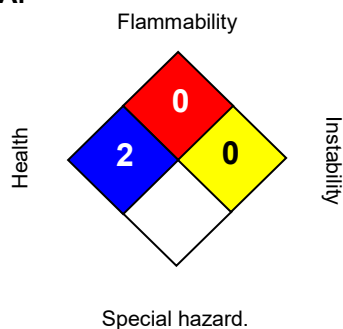
Version 1.7

Revision Date: 03/25/2020

|                                                                                  |                                                                                                                                             |            |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1310-73-2                                                                        | Sodium hydroxide                                                                                                                            | 5 - 10 %   |
| <b>Pennsylvania Right To Know</b>                                                |                                                                                                                                             |            |
| 7732-18-5                                                                        | Water                                                                                                                                       | 90 - 100 % |
| 7681-52-9                                                                        | Sodium hypochlorite                                                                                                                         | 10 - 20 %  |
| 1310-73-2                                                                        | Sodium hydroxide                                                                                                                            | 5 - 10 %   |
| <b>New Jersey Right To Know</b>                                                  |                                                                                                                                             |            |
| 7732-18-5                                                                        | Water                                                                                                                                       | 90 - 100 % |
| 7681-52-9                                                                        | Sodium hypochlorite                                                                                                                         | 10 - 20 %  |
| 1310-73-2                                                                        | Sodium hydroxide                                                                                                                            | 5 - 10 %   |
| <b>California Prop 65</b>                                                        | : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other re-productive harm. |            |
| <b>The components of this product are reported in the following inventories:</b> |                                                                                                                                             |            |
| 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%

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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                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |

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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.

| 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 |

**SAMPLE RESULTS REPORT**
**Report Date/Time:** 01/24/2025 14:48

| REPORT TO                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |

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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

**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 |
|-----------------|-----------|------|

**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 |

**SAMPLE RESULTS REPORT**
**Report Date/Time:** 01/24/2025 14:48

| REPORT TO                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |

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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 |
|------------|-------|------|

**Microbiological**

|                |     |            |
|----------------|-----|------------|
| Fecal Coliform | 181 | MPN/100 mL |
|----------------|-----|------------|

**Inorganics**

**SAMPLE RESULTS REPORT**
**Report Date/Time:** 01/24/2025 14:48

|                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>REPORT TO</b>                                                                                                               |
| <b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |

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*Disclaimer: Information provided by the customer can affect the validity of results.*

| Analyte Name | Result | Units | Qualifier | Regulatory Limit |
|--------------|--------|-------|-----------|------------------|
|--------------|--------|-------|-----------|------------------|

**Sample Point:** DSN0011

**Sample ID:** FF00086-02

**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                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |

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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

|                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REPORT TO</b><br><br><b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |
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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

|                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REPORT TO</b><br><br><b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |
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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 | 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

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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Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto:Cheyenne.Whitmire@et.eurofinsus.com)  
(850)471-6222



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## Case Narrative

Client: Southern Environmental Testing  
Project: Essity Professional Hygiene

Job ID: 400-269055-1

**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
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 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       |

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# 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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- 14

## 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       |

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# 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 |



Wor: 01/16/2019

## 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

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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                                                                     |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| COMPOSITE                                                                                                               |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| FIELD INFORMATION                                                                                                       |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| SM 4500H+B SM 4500-Cl G (2011) SM 4500-O G SM 2550B QTY Type - Cool f/c pH Parameters                                   |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| START DATE mg/l TRC mg/l DO mg/l Temp deg C 2 250ml HDPE H2SO4 COMP 1-Liter HDPE COMP BOD, TSS, MBAS, N/N, SO3, SO4, BR |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| STOP DATE mg/l TRC mg/l DO mg/l Temp deg C 2 250ml HDPE HNO3 COMP 400ml Glass Vial HCl COMP Metals-ICP, Ti (Decatur)    |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| STOP DATE mg/l TRC mg/l DO mg/l Temp deg C 2 1-Liter Amber Glass COMP 400ml Glass Vial H3PO4 COMP TOC                   |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| STOP DATE mg/l TRC mg/l DO mg/l Temp deg C 2 250ml HDPE NaOH+ZnOA COMP Sulfide                                          |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| STOP DATE mg/l TRC mg/l DO mg/l Temp deg C 2 120ml Sterile GRAB FC                                                      |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| STOP DATE mg/l TRC mg/l DO mg/l Temp deg C 2 1-Liter Glass H2SO4 GRAB OG                                                |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| STOP DATE mg/l TRC mg/l DO mg/l Temp deg C 2 60ml Amber Glass NaOH GRAB CN                                              |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| STOP DATE mg/l TRC mg/l DO mg/l Temp deg C 2 1-Liter HDPE GRAB ADMI, FL                                                 |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| STOP DATE mg/l TRC mg/l DO mg/l Temp deg C 2 250ml HDPE HNO3 GRAB P-ICP                                                 |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| STOP DATE mg/l TRC mg/l DO mg/l Temp deg C 2 1-Liter Amber Glass H2SO4 GRAB Phenolics                                   |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| RELINQUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME    |  |                                       |  |                            |  |                            |  |           |  |                        |  |                        |  |           |  |                    |  |                    |  |                |  |                       |  |             |  |                    |  |                   |  |                  |  |              |  |               |  |           |  |
| RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED 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                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |

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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 |
|----------------|-----|------------|

**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**

**SAMPLE RESULTS REPORT**
**Report Date/Time:** 01/24/2025 14:46

|                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>REPORT TO</b>                                                                                                               |
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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 |
|-----------------|-----------|------|

**SAMPLE RESULTS REPORT**
**Report Date/Time:** 01/24/2025 14:46

|                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>REPORT TO</b>                                                                                                               |
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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 |

**SAMPLE RESULTS REPORT**
**Report Date/Time:** 01/24/2025 14:46

| REPORT TO                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |

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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

|                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
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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

|                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
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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         |                                               |

**SAMPLE RESULTS REPORT**
**Report Date/Time:** 01/24/2025 14:46

|                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REPORT TO</b><br><br><b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|

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.

**Analysis Information**

| Lab Number | Analysis                  | Referenced Method  | Analyst | SET Facility | Collection Date/Time | Analysis Start Date/Time | Analysis End Date/Time<br>(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



Generated  
1/16/2025 7:23:48 PM

Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto: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

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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: 400-269056-1  
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 |

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- 12
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- 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       |

Eurofins Pensacola



# 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     |

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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: 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        |

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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: 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        |

[illegible]



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".

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                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |

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

|                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REPORT TO</b><br><br><b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|

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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



Generated  
2/6/2025 8:51:48 PM

Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto: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.

Eurofins Pensacola



## 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
- 10
- 11
- 12
- 13
- 14

# 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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- 14

## 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       |

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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: MB 400-698327/1-A

Matrix: Water

Analysis Batch: 698479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 698327

| Analyte                | MB<br>Result | MB<br>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<br>%Recovery | MB<br>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<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>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<br>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: 400-270031-1  
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        |

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: 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 |

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: 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



|                                                                                     |  |                                   |  |                                             |  |                                                          |  |
|-------------------------------------------------------------------------------------|--|-----------------------------------|--|---------------------------------------------|--|----------------------------------------------------------|--|
| <b>Client Information</b>                                                           |  | Sampler: A. Dixon                 |  | Lab PM: Whitmire, Cheyenne R                |  | COC No: 400-956882-34721.1                               |  |
| 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                                                                            |  | C - Zn Acetate                    |  | D - Nitric Acid                             |  | E - Na2SO3                                               |  |
| F - MeOH                                                                            |  | G - Amchlor                       |  | H - Ascorbic Acid                           |  | I - Ice                                                  |  |
| J - DI Water                                                                        |  | K - EDTA                          |  | L - EDA                                     |  | Other:                                                   |  |
| W - pH 4-5                                                                          |  | Z - 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:                                                          |  | 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: Δ Yes Δ No                                                    |  | Custody Seal No.:                 |  | Cooler Temperature(s) °C and Other Remarks: |  | 1/29/25 9:41                                             |  |

## 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 |
|------|---|----|---|

|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|-----------------------------|--|---------------------------------------|--|---------------------------|--|---------------------------|--|------|--|------|--|----|--|-----|--|-----|--|-----|--|-------|--|----|--|-----|--|-------------------|--|
| 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                         |  | Cheokee, 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                               |  | 1/27/25                   |  | 0645                      |  | X    |  |      |  | X  |  | X   |  | X   |  | X   |  | X     |  | X  |  | X   |  |                   |  |
| EEO0198-01                  |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |
|                             |  |                                       |  |                           |  |                           |  |      |  |      |  |    |  |     |  |     |  |     |  |       |  |    |  |     |  |                   |  |



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 distinguishable.

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                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |

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 |
|--------------------|------|------|



**SAMPLE RESULTS REPORT**
**Report Date/Time:** 02/07/2025 09:07

|                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REPORT TO</b><br><br><b>Alicia Barnes</b><br><b>Essity Professional Hygiene NA LLC - US</b><br><b>1834 Haley Drive</b><br><b>Cherokee, AL 35616</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|

*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



Generated  
2/6/2025 8:50:44 PM

Authorized for release by  
Cheyenne Whitmire, Senior Project Manager  
[Cheyenne.Whitmire@et.eurofinsus.com](mailto: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.

Eurofins Pensacola

## 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

3

4

5

6

7

8

9

10

11

12

13

14

This Detection Summary does not include radiochemical test results.

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## 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 |

- 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: 400-270030-1  
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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- 2
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- 4
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- 13
- 14

## 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 |

Eurofins Pensacola

## 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



|                                                                                                                                                                                                                                                                     |  |                                                        |  |                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b>                                                                                                                                                                                                                                           |  | Sampler:<br>A. Dixon                                   |  | Lab PM:<br>Whitmore, Cheyenne R                                                                                                                                                                                                        |  | COC No:<br>400-95882-34721.1                                                                                                                                                                              |  |
| Client Contact:<br>Allison Dixon                                                                                                                                                                                                                                    |  | Phone:<br>256-740-5532                                 |  | E-Mail:<br>Cheyenne.Whitmore@Eurofinset.com                                                                                                                                                                                            |  | Page:<br>Page 1 of 1                                                                                                                                                                                      |  |
| Company:<br>Southern Environmental Testing                                                                                                                                                                                                                          |  | Address:<br>3103 Northington Ct                        |  | City:<br>Florence                                                                                                                                                                                                                      |  | Job #:                                                                                                                                                                                                    |  |
| State, Zip:<br>AL, 35630                                                                                                                                                                                                                                            |  | Phone:<br>256-280-2569                                 |  | Email:<br>adixon@setesting.com                                                                                                                                                                                                         |  | Project #:                                                                                                                                                                                                |  |
| Site:<br>Essity Professional Hygiene                                                                                                                                                                                                                                |  | Due Date Requested:                                    |  | TAT Requested (days):<br>STANDARD                                                                                                                                                                                                      |  | Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other: |  |
| Sample Identification                                                                                                                                                                                                                                               |  | Sample Date<br>1/27/25                                 |  | Sample Type<br>(C=comp, G=grab)<br>G                                                                                                                                                                                                   |  | Matrix<br>(W=water, S=solid, O=wastewater, BT=Tissue, A=Air)<br>W                                                                                                                                         |  |
| DSN003S                                                                                                                                                                                                                                                             |  | Sample Time<br>0700                                    |  | Preservation Code:<br>X                                                                                                                                                                                                                |  | Field Filtered Sample (Yes or No)<br>X                                                                                                                                                                    |  |
| SV 625 (permit renewal list)                                                                                                                                                                                                                                        |  | X                                                      |  | X                                                                                                                                                                                                                                      |  | Total Number of containers<br>2                                                                                                                                                                           |  |
| Special Instructions/Note:                                                                                                                                                                                                                                          |  | FF00199-01                                             |  |                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                           |  |
| Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  | Deliverable Requested: I, II, III, IV, Other (specify) |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  |                                                                                                                                                                                                           |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                          |  | Date:                                                  |  | Time:                                                                                                                                                                                                                                  |  | Method of Shipment:                                                                                                                                                                                       |  |
| Relinquished by: <i>AD Dixon</i>                                                                                                                                                                                                                                    |  | Date/Time: 1/29/25 1328                                |  | Company: SET-Florence                                                                                                                                                                                                                  |  | Received by:                                                                                                                                                                                              |  |
| Relinquished by:                                                                                                                                                                                                                                                    |  | Date/Time:                                             |  | Company:                                                                                                                                                                                                                               |  | Received by:                                                                                                                                                                                              |  |
| Relinquished by:                                                                                                                                                                                                                                                    |  | Date/Time:                                             |  | Company:                                                                                                                                                                                                                               |  | Received by:                                                                                                                                                                                              |  |
| Custody Seals Intact:<br>Δ Yes Δ No                                                                                                                                                                                                                                 |  | Custody Seal No.:                                      |  | Cooler Temperature(s) °C and Other Remarks:<br>1129/25 9:41<br>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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