



Alabama Department of Environmental Management
adem.alabama.gov

APRIL 25, 2024

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BRIAN INGERSOLL
PLANT MANAGER
STELLA-JONES CORPORATION
1051 HIGHWAY 25 SOUTH
BRIERFIELD, AL 35035

**RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0054682**

Dear Mr. Ingersoll:

Transmitted herein is a draft of the referenced permit reflecting a proposed modification.

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 Wayne Holt by e-mail at WHolt@adem.alabama.gov or by phone at (334) 271-7847.

Sincerely,

Scott Ramsey, Chief
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





NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: STELLA-JONES CORPORATION

FACILITY LOCATION: STELLA JONES CORPORATION
1051 HIGHWAY 25 SOUTH
BRIERFIELD, ALABAMA 35035
SHELBY COUNTY

PERMIT NUMBER: AL0054682

RECEIVING WATERS: 002 - UNNAMED TRIBUTARY TO SHOAL CREEK
003 - UNNAMED TRIBUTARY TO SHOAL CREEK
007 - UNNAMED TRIBUTARY TO SHOAL 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: AUGUST 31, 2022

EFFECTIVE DATE: OCTOBER 1, 2022

MODIFICATION ISSUANCE DATE:

MODIFICATION EFFECTIVE DATE:

EXPIRATION DATE: SEPTEMBER 30, 2027

DRAFT

Alabama Department of Environmental Management

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS**A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS****DSN 002Q: Boiler blowdown, NCCW, water softener regeneration effluent and cooling tower blowdown 3/ 5/ 6/**

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

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	90 Maximum Daily	deg F	*****	*****	*****	*****	Quarterly	Measured	All Months
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	8.5 Maximum Daily	S.U.	Quarterly	Grab	All Months
Chloride (As Cl) (00940) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Quarterly	Instantaneous	All Months
Chlorine, Total Residual (50060) 4/ Effluent Gross Value	*****	*****	*****	*****	0.011 Monthly Average	0.019 Maximum Daily	mg/l	Quarterly	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/ A measurement of Total Residual Chlorine below 0.05 mg/L will be considered in compliance with the permit limitations above and should be reported as NOD1=B or *B on the discharge monitoring reports.

5/ See Part I.D.5 for requirements associated with use of cooling water and boiler water additives.

6/ The use of a biocide, corrosion inhibitor or chemical additive in a cooling or boiler system which contains Phosphorus or a phosphorus based compound is prohibited.

DSN 003Q: Storm water associated with the lumber and wood products industry including wood treating operations. 3/ 4/

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

Parameter	Quantity or Loading		Units	Quality or Concentration		Units	Sample Frequency ²	Sample Type ¹	Seasonal	
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Quarterly	Grab	All Months
Solids. Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months
Arsenic. Total (As As) (01002) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Chromium. Total (As Cr) (01034) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Copper. Total (As Cu) (01042) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Toluene (34010) Effluent Gross Value	*****	*****	*****	*****	*****	8723 Maximum Daily	ug/l	Quarterly	Grab	All Months
Benzene (34030) Effluent Gross Value	*****	*****	*****	*****	*****	15.5 Maximum Daily	ug/l	Quarterly	Grab	All Months
Acenaphthylene (34200) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	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/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

DSN 003Q (Continued): Storm water associated with the lumber and wood products industry including wood treating operations. 3/ 4/

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

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Acenaphthene (34205) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Benzo (A) Pyrene (34247) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Chrysene (34320) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	1244 Maximum Daily	ug/l	Quarterly	Grab	All Months
Fluorene (34381) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Phenanthrene (34461) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
2,4-Dimethylphenol (34606) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
2,4,6-Trichlorophenol (34621) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Naphthalene (34696) Effluent Gross Value	*****	*****	*****	*****	*****	620 Maximum Daily	ug/l	Quarterly	Grab	All Months

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- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

DSN 003Q (Continued): Storm water associated with the lumber and wood products industry including wood treating operations. 3/ 4/

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

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Phenols (46000) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Quarterly	Estimate	All Months
Benzo(A) Fluoranthene (51423) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	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/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

DSN 003S: Storm water associated with the lumber and wood products industry including wood treating operations. 3/ 4/

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

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Purgeable Aromatics Method 602 (03771) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Semi-Annually	Grab	All Months
Polynuclear Aromatic Hydrocarbons (PAH) (22456) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Semi-Annually	Grab	All Months

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- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

DSN 007Q: Storm water associated with the lumber and wood products industry including wood treating operations. 3/ 4/

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

Parameter	Quantity or Loading		Units	Quality or Concentration		Units	Sample Frequency ²	Sample Type ¹	Seasonal	
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Quarterly	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months
Arsenic, Total (As As) (01002) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Chromium, Total (As Cr) (01034) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Copper, Total (As Cu) (01042) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Toluene (34010) Effluent Gross Value	*****	*****	*****	*****	*****	8723 Maximum Daily	ug/l	Quarterly	Grab	All Months
Benzene (34030) Effluent Gross Value	*****	*****	*****	*****	*****	15.5 Maximum Daily	ug/l	Quarterly	Grab	All Months
Acenaphthylene (34200) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months

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DSN 007Q (Continued): Storm water associated with the lumber and wood products industry including wood treating operations. 3/ 4/

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- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

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

2. Test Procedures

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

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

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

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

- c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit using the most sensitive EPA approved method. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures A and B above shall be reported on the permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

3. Recording of Results

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

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

4. Records Retention and Production

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the

permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records shall not be submitted unless requested.

All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

5. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. The permittee shall develop and maintain quality assurance procedures to ensure proper operation and maintenance of all equipment and instrumentation. The quality assurance procedures shall include the proper use, maintenance, and installation, when appropriate, of monitoring equipment at the plant site.

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

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

MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.

QUARTERLY MONITORING shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring may be done anytime during the quarter, unless restricted elsewhere in this permit, but it should be submitted with the last DMR due for the quarter, i.e., (March, June, September and December DMR's).

SEMIANNUAL MONITORING shall be conducted at least once during the period of January through June and at least once during the period of July through December. The permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be submitted with the last DMR for the month of the semiannual period, i.e. (June and December DMR's).

ANNUAL MONITORING shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be submitted with the December DMR.

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

REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING shall be submitted on a **monthly** basis. The first report is due on the **28th day of (MONTH, YEAR)**. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF QUARTERLY TESTING shall be submitted on a **quarterly** basis. The first report is due on the **28th day of [Month, Year]**. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF SEMIANNUAL TESTING shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF ANNUAL TESTING shall be submitted on an annual basis. The first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

- c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b electronically.

- (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b, unless otherwise directed by the Department.

If the Department's electronic system is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within 5 calendar days of the Department's electronic system resuming operation, the permittee shall enter the data into the Department's electronic system, unless an alternate timeframe is approved by the Department. A comment should be included on the electronic DMR submittal verifying the original submittal date (date of the fax, copy of the dated e-mail, or hand-delivery stamped date), if applicable.

- (2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.

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

- (3) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
 - (4) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.
 - (5) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:

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

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

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

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

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

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

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

Certified and Registered Mail shall be addressed to:

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

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

2. Noncompliance Notification

- a. 24-Hour Noncompliance Reporting

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

- (1) does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I. A. of this permit which is denoted by an "(X)";
- (2) threatens human health or welfare, fish or aquatic life, or water quality standards;
- (3) does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
- (4) contains a quantity of a hazardous substance which has been determined may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (5) exceeds any discharge limitation for an effluent characteristic as a result of an unanticipated bypass or upset; and
- (6) is an unpermitted direct or indirect discharge of a pollutant to a water of the state (unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision).

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

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

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

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

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

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

2. Termination of Discharge

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

3. Updating Information

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

4. Duty to Provide Information

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

5. Cooling Water and Boiler Water Additives

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

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

6. Permit Issued Based on Estimated Characteristics

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

E. SCHEDULE OF COMPLIANCE

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

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

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

PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES**A. OPERATIONAL AND MANAGEMENT REQUIREMENTS****1. Facilities Operation and Maintenance**

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

2. Best Management Practices

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

3. Spill Prevention, Control, and Management

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

B. OTHER RESPONSIBILITIES**1. Duty to Mitigate Adverse Impacts**

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

2. Right of Entry and Inspection

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

- a. enter upon the permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
- b. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- c. inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

C. BYPASS AND UPSET**1. Bypass**

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

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

2. Upset

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

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

1. Duty to Comply

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

2. Removed Substances

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

3. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

4. Compliance with Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Blvd., Montgomery, AL 36130.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

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

1. Duty to Reapply or Notify of Intent to Cease Discharge

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

2. Change in Discharge

- a. The permittee shall apply for a permit modification at least 180 days in advance of any facility expansion, production increase, process change, or other action that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant such that existing permit limitations would be exceeded or that could result in an additional discharge point. This requirement applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.
- b. The permittee shall notify the Director as soon as it is known or there is reason to believe:
 - (1) That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (i) one hundred micrograms per liter;
 - (ii) two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dini-trophenol; 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 to ensure that the BMP is continually implemented and effective;
- h. Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;
- i. Develop a solvent management plan, if solvents are used on site. The solvent management plan shall include as a minimum lists of the solvents on site; the disposal method of solvents used instead of dumping, such as reclamation, contract hauling; and the procedures for assuring that solvents do not routinely spill or leak into the stormwater;
- j. Provide for the disposal of all used oils, hydraulic fluids, firefighting foams, solvent degreasing material, etc. in accordance with good management practices and any applicable state or federal regulations;
- k. Include a diagram of the facility showing the locations where stormwater exits the facility, the locations of any structure or other mechanisms intended to prevent pollution of stormwater or to remove pollutants from stormwater, the locations of any collection and handling systems;
- l. Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;
- m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s)

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

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

3. Compliance Schedule

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

4. Department Review

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

5. Administrative Procedures

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

B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS

1. Stormwater Flow Measurement

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

2. Stormwater Sampling

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

C. COOLING WATER INTAKE STRUCTURE (CWIS) REQUIREMENTS

The entity providing water to the permittee is a public water system in accordance with Section 1401 of the Safe Drinking Water Act or the water used for cooling consists of effluent, which would otherwise be discharged; therefore, the permittee is exempt from this permit condition.

ADEM PERMIT RATIONALE

PREPARED DATE: April 18, 2024

PREPARED BY: Wayne Holt

Permittee Name: Stella-Jones Corporation

Facility Name: Stella Jones Corporation

Permit Number: AL0054682

PERMIT IS MODIFICATION

DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:

DSN	Description
002	Boiler blowdown, non-contact cooling water, water softener regeneration effluent and cooling tower blowdown
003	Stormwater associated with the lumber and wood products industry including wood treating operations.
007	Stormwater associated with the lumber and wood products industry including wood treating operations.

INDUSTRIAL CATEGORY: 40 CFR 429 TIMBER PRODUCTS PROCESSING

MAJOR: No

STREAM INFORMATION:

Receiving Stream: Unnamed Tributary to Shoal Creek
Classification: Fish & Wildlife
River Basin: Cahaba River Basin
7Q10: 0.0 CFS
7Q2: 0.0 CFS
1Q10: 0.0 CFS
Annual Average Flow: 0.40 CFS
303(d) List: NO
Impairment: N/A
TMDL: YES (Cahaba Basin – Nutrients)

DISCUSSION:

The purpose of this modification is to address the transition from the use of preservatives of Copper Naphthenate, creosote, and/or borate to solutions containing DCOI (4,5 Dichloro-2-n-octyl-4-isothiazolin-3-one).

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.

EPA has not promulgated specific guidelines for the discharges covered under the proposed permit. Proposed permit limits are based on Best Professional Judgment. The proposed frequencies are based on a review of site-specific conditions and an evaluation of similar facilities.

DSN 002Q: Boiler blowdown, NCCW, water softener regeneration effluent and cooling tower blowdown

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	90 Maximum Daily	deg F	*****	*****	*****	*****	Quarterly	Measured	All Months	
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	8.5 Maximum Daily	S.U.	Quarterly	Grab	All Months	
Chloride (As Cl) (00940) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Quarterly	Instantaneous	All Months	
Chlorine, Total Residual (50060) See notes (1,2) Effluent Gross Value	*****	*****	*****	*****	0.011 Monthly Average	0.019 Maximum Daily	mg/l	Quarterly	Grab	All Months	

DSN 003Q: Storm water associated with the lumber and wood products industry including wood treating operations.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
				(Report) Minimum Daily		(Report) Maximum Daily					
pH (00400) Effluent Gross Value	****	****	****	(Report) Minimum Daily	****	(Report) Maximum Daily	S.U.	Quarterly	Grab	All Months	
Solids, Total Suspended (00530) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	
Oil & Grease (00556) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	
Arsenic, Total (As As) (01002) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Chromium, Total (As Cr) (01034) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Copper, Total (As Cu) (01042) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Toluene (34010) Effluent Gross Value	****	****	****	****	****	8723 Maximum Daily	ug/l	Quarterly	Grab	All Months	
Benzene (34030) Effluent Gross Value	****	****	****	****	****	15.5 Maximum Daily	ug/l	Quarterly	Grab	All Months	
Acenaphthylene (34200) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Acenaphthene (34205) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Benzo (A) Pyrene (34247) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Chrysene (34320) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Ethylbenzene (34371) Effluent Gross Value	****	****	****	****	****	1244 Maximum Daily	ug/l	Quarterly	Grab	All Months	
Fluorene (34381) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Phenanthrene (34461) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
2,4-Dimethylphenol (34606) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
2,4,6-Trichlorophenol (34621) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Naphthalene (34696) Effluent Gross Value	****	****	****	****	****	620 Maximum Daily	ug/l	Quarterly	Grab	All Months	
Phenols (46000) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	****	(Report) Maximum Daily	MGD	****	****	****	****	Quarterly	Estimate	All Months	
Benzo(A) Fluoranthene (51423) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	

DSN 003S: Storm water associated with the lumber and wood products industry including wood treating operations.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Purgeable Aromatics Method 602 (03771) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Semi- Annually	Grab	All Months	
Polynuclear Aromatic Hydrocarbons (PAH) (22456) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Semi- Annually	Grab	All Months	

DSN 007Q: Storm water associated with the lumber and wood products industry including wood treating operations.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
				(Report) Minimum Daily		(Report) Maximum Daily					
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Quarterly	Grab	All Months	
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	
Arsenic, Total (As As) (01002) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Chromium, Total (As Cr) (01034) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Copper, Total (As Cu) (01042) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Toluene (34010) Effluent Gross Value	*****	*****	*****	*****	*****	8723 Maximum Daily	ug/l	Quarterly	Grab	All Months	
Benzene (34030) Effluent Gross Value	*****	*****	*****	*****	*****	15.5 Maximum Daily	ug/l	Quarterly	Grab	All Months	
Acenaphthylene (34200) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Acenaphthene (34205) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Benzo (A) Pyrene (34247) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Chrysene (34320) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	1244 Maximum Daily	ug/l	Quarterly	Grab	All Months	
Fluorene (34381) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Phenanthrene (34461) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
2,4-Dimethylphenol (34606) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
2,4,6-Trichlorophenol (34621) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Naphthalene (34696) Effluent Gross Value	*****	*****	*****	*****	*****	620 Maximum Daily	ug/l	Quarterly	Grab	All Months	
Phenols (46000) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Quarterly	Estimate	All Months	
Benzo(A) Fluoranthene (51423) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	

DSN 007S: Storm water associated with the lumber and wood products industry including wood treating operations.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Purgeable Aromatics Method 602 (03771) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Semi- Annually	Grab	All Months	
Polynuclear Aromatic Hydrocarbons (PAH) (22456) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Semi- Annually	Grab	All Months	

***Basis for Permit Limitation**

- BPJ – Best Professional Judgment
- WQBEL – Water Quality Based Effluent Limits
- EGL – Federal Effluent Guideline Limitations
- 303(d) – 303(d) List of Impaired Waters
- TMDL – Total Maximum Daily Load Requirements

Discussion

DSN003: Stormwater associated with the lumber and wood products industry including wood treating operations.

DSN007: Stormwater associated with the lumber and wood products industry including wood treating operations.

Best Professional Judgment (BPJ)

The parameters of concern for this facility are based on the parameters of concern listed in the permittee's application and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. The parameters with specific limits are discussed below.

Total Purgeable Aromatics:

In this modification, Total Purgeable Aromatics testing is being added as a semi-annual requirement at both stormwater outfalls due to the transition to the use treatment chemicals containing DCOI for wood treating. Because there is no specific analytical method for DCOI, Total Purgeable Aromatics has been determined to be the appropriate surrogate because the primary ingredients in DCOI are heavier aromatic compounds. Oil & grease will also serve as an indicator for DCOI because this treatment solution is primarily oil based.

Benzene, Ethylbenzene, Toluene, Xylene, and Naphthalene

The parameters of benzene, toluene, ethylbenzene, and xylene are being added to the as quarterly monitoring requirements at both stormwater outfalls based on the wood treatment solution (containing a large percentage of diesel) that is proposed in the modification request.

To ensure the Waters of the State are protected, Water Quality-based limits are proposed for each parameter.

Based on the DCOI wood treating chemicals being proposed, the outfall descriptions are undergoing revisions for simplification. The descriptions for Outfalls DSN003 and DSN007 are being changed from

Stormwater associated with the lumber and wood products industry including wood treating operations. using Copper Naphthenate, creosote and borate preservatives.

To

Stormwater associated with the lumber and wood products industry including wood treating operations.

NPDES Individual Permit Mod/Reissue (Form 187) - Supplementary Information for Industrial Facilities

version 2.8

(Submission #: HQ1-CKG4-K1N2F, version 1)

Digitally signed by:
AEPACS
Date: 2024.03.19 16:44:31 -05:00
Reason: Submission Data
Location: State of Alabama

Details

Submission ID HQ1-CKG4-K1N2F

Form Input

General Instructions

This form should be used to submit the following permit requests for permitted Industrial Individual NPDES facilities

- Permit Transfers
- Permittee/Facility Name Changes
- Minor Modifications, for example:
 - > Frequency of monitoring or reporting modifications
 - > Changes to interim compliance dates in a schedule of compliance, not including the final compliance date.
 - > Removal of a point source outfall, provided the discharge is terminated and does not result in discharge of pollutants from other outfalls, except in accordance with permit limits.
- Major Modifications, (Any modifications not covered by minor modifications, whether Effluent Limit changes occur or not)
- Reissuances
 - Reissuance of a permit due to approaching expiration
 - Revocation and Reissuance of permit prior to its scheduled expiration

Applicable Base Fees:

- Permit Transfers and/or Permittee/Facility Name Changes
 - > \$800
- Minor Modifications (see examples above)
 - > \$3,940 (Major Sources)
 - > \$3,120 (Minor Sources)
- Major Modifications
 - > \$17,990 (Major Sources)
 - > \$5,615 (Minor Sources)
- Reissuances
 - > \$17,990 (Major Sources)
 - > \$5,615 (Minor Sources)

[For assistance, please click here to determine the permit staff responsible for the site or call \(334\) 271-7943](#)

Processing Information

Purpose of Application

Minor Modification

Please indicate if the Permittee is applying for a permit transfer and/or name change in addition to permit modification or reissuance:

None

Action Type

Minor Modification

Brief description of the action/change that has resulted in the request for this permit modification:

This permit modification proposes the ability to dissolve and use an alternative wood preservative chemical, 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (DCOI) in once cylinder that currently uses Copper Naphthenate (CuNap).

For your minor modifications, please attach the supporting information detailing the changes at this facility requiring this minor modification request:

[UP 50 v.2.0 DCOI Block SDS.pdf - 03/18/2024 03:20 PM](#)

[SDS- UP-50 Work Solution with Hi-Flash Diesel.pdf - 03/18/2024 03:20 PM](#)

Comment

This permit modification proposes the ability to dissolve and use an alternative wood preservative chemical, 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (DCOI) in once cylinder that currently uses Copper Naphthenate (CuNap). SDSs are attached for reference.

General Information

SID Permit Number (if your facility currently holds an SID permit, please provide that number below):

NONE PROVIDED

NPDES or General Permit Numbers (if applicable, please list all permit numbers):

AL0054682

Is this facility/site only applying for permit coverage for discharges from stormwater?

No

Permit Information

Permit Number

AL0054682

Current Permittee Name

Stella-Jones Corporation

Permittee

Permittee Name

Stella-Jones Corporation

Mailing Address

1051 Highway 25 South

Brierfield, AL 35035

Per ADEM Admin. Code r. 335-6-6-.09 (1), a Responsible Official is defined as CEO, President, any position at a level of Vice President or higher, Owner, Partner, Managing Member (LLC), or ranking elected official. Please provide the contact information for the person meeting this definition.

Do NOT enter information for a person that is/will be a Duly Authorized Representative (DAR) (i.e. a person that has been delegated signatory permissions by a Responsible Official). A person that is a Duly Authorized Representative is NOT considered a RESPONSIBLE OFFICIAL.

Responsible Official**Prefix**

Mr.

First Name Last Name

Brian Ingersoll

Title

Plant Manager

Organization Name

Stella-Jones Corporation

Phone Type Number Extension

Business 2056794005 6555

Email

bingersoll@stella-jones.com

Mailing Address

1051 Highway 25 South

Brierfield, AL 35035

Does the Responsible Official intend to delegate signatory authority for DMRs or other compliance reports to an individual as a duly authorized representative (DAR) for this site?

No

Existing Permit Contacts

Affiliation Type	Contact Information	Remove?
DMR Contact, Environmental Contact	Barry Cooner, JCooner@Stella-Jones.com	Remove
Responsible Official, Notification Recipient	Brian Ingersoll, Stella-Jones Corporation	Keep
Environmental Contact	Sam Moates	Keep
Permittee	Stella-Jones Corporation	Keep

Facility/Site Information**Facility/Site Name**

Stella Jones Corporation

Organization/Ownership Type

Corporation

Facility/Site Address or Location Description

1051 Highway 25 South

Brierfield, AL 35035

Facility/Site County

Shelby

Detailed Directions to the Facility/Site

From Interstate 65, take exit 228 for AL-25 toward Montevallo/ Calera and proceed for ~0.3 miles.

In ~0.9 miles, turn left onto AL-25S.

In ~0.2 miles, turn left onto US-31S.

In ~9.5 miles, turn right onto AL-25S.

The facility will be on the right in ~300-feet.

Facility Map[FIG 1 - Facility Location Map 14194A001.pdf - 02/13/2024 09:57 AM](#)**Comment**

NONE PROVIDED

Please refer to the link below for Lat/Long map instruction help:

[Map Instruction Help](#)

Facility/Site Front Gate Latitude and Longitude

33.06138900000000,-86.89860000000000

1051 Highway 25 South, Brierfield, AL

SIC Code(s) [Please enter Primary SIC Code first followed by any additional applicable SIC Codes]

2491-Wood Preserving

NAICS Code(s) [Please enter Primary NAICS Code first followed by any additional applicable NAICS Codes]

321114-Wood Preservation

Facility/Site Contact

Prefix

Mr.

First Name Last Name

Brian Ingersoll

Title

Plant Manager

Organization Name

Stella-Jones Corporation

Phone Type Number Extension

Business 2056794005 6555

Email

bingersoll@stella-jones.com

Address

1051 Highway 25 South

Brierfield, AL 35035

DMR Contact(s) (1 of 1)

DMR Contact

Prefix

Mr.

First Name Last Name

Sam Moates

Title

EHS Supervisor

Phone Type Number Extension

Business 2056794005 6560

Email

smoates@stella-jones.com

Address

1051 Highway 25 South

Brierfield, AL 35035

Additional Attachments

Please attach any additional information as needed.

[Stormwater Flow Map.pdf - 03/18/2024 05:22 PM](#)

[Form 2E - Boiler Chemical SDSs.pdf - 03/18/2024 06:27 PM](#)

[Assembled Form 2F and 2E for Outfalls 003 and 007 3.13.24.pdf - 03/19/2024 01:26 PM](#)

Comment

Please find attached EPA Form 2F and Form E

Application Preparer

Application Preparer

Prefix

Mr.

First Name Last Name

Daniel *Frederick*

Title

Environmental Manager

Organization Name

Stella-Jones Corporation

Phone Type Number Extension

Mobile 4124950864

Email

dfrederick@stella-jones.com

Address

1000 Cliff Mine Road

Suite 500

Pittsburgh, GA 15275

Agreements and Signature(s)

SUBMISSION AGREEMENTS

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

"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."

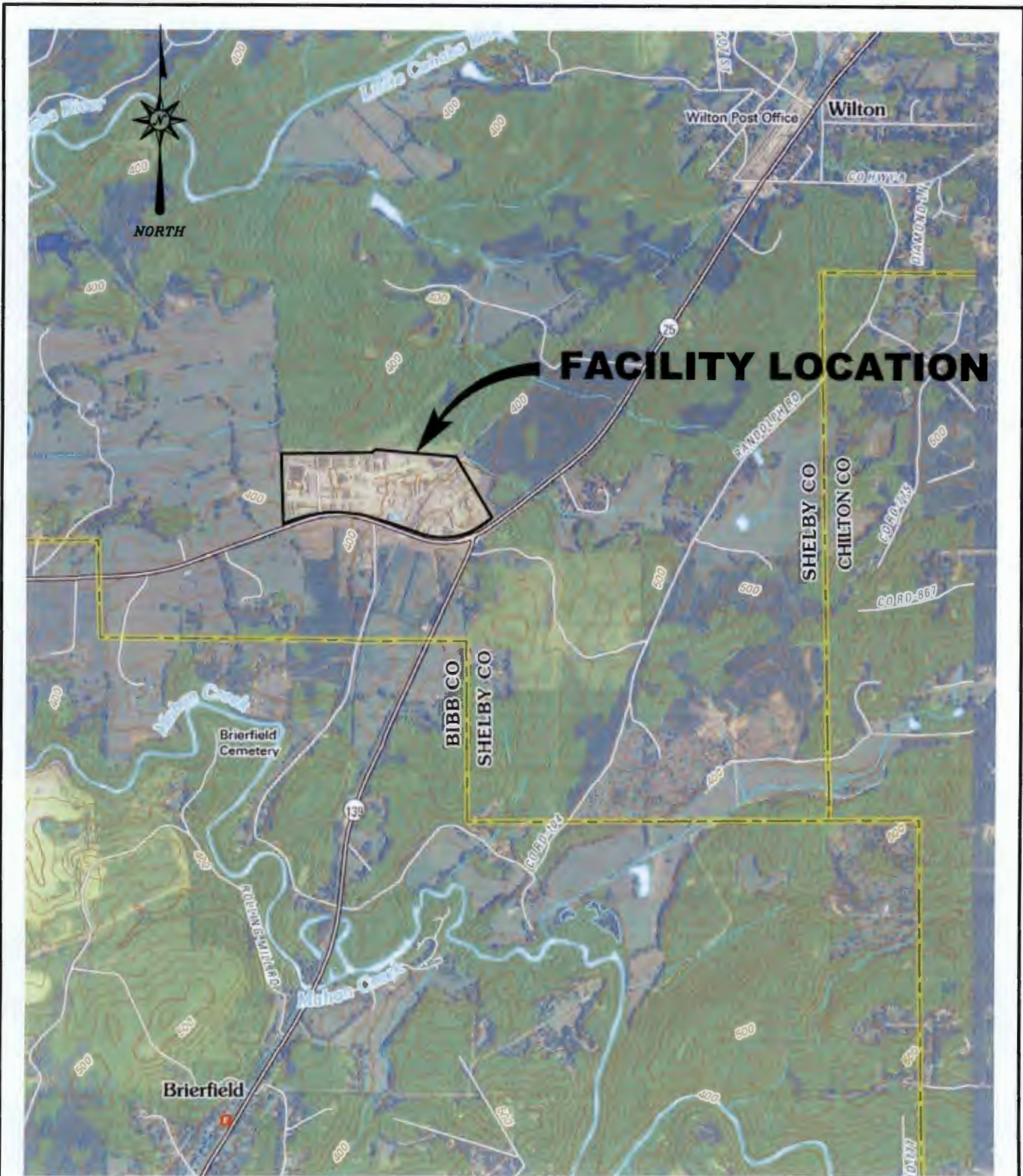
"I further certify under penalty of law that all analyses reported as less than detectable in this application or attachments thereto were performed using the EPA approved test method having the lowest detection limit for the substance tested."

NOTE: 335-6-5-.14 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

The application shall be signed by a responsible official, a request for variance from categorical pretreatment standards, and a category determination request shall be signed by a responsible official, as indicated below.

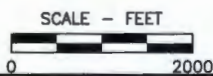
- *In the case of a corporation, by a principal executive officer of at least the level of vice president;*
- *In the case of a partnership, by a general partner;*
- *In the case of a sole proprietorship, by the proprietor; or*
- *In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official*

Signed
By Brian Ingersoll on 03/19/2024 at 4:39 PM



FACILITY LOCATION

REFERENCE:
USGS 7.5-MIN TOPOGRAPHIC
QUADRANGLE ALDRICH, ALABAMA,
DATED 2011.

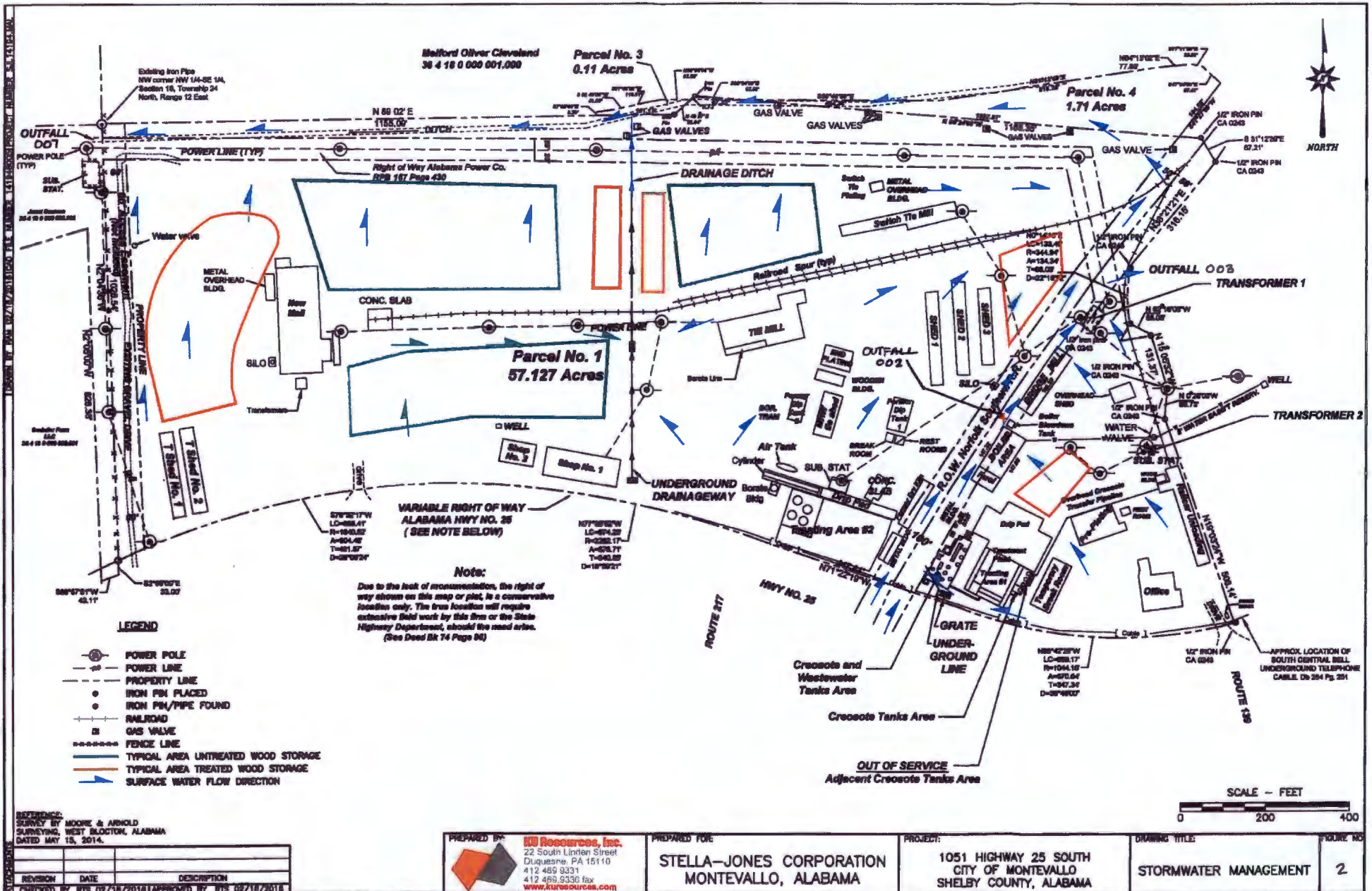


REVISION	DATE	DESCRIPTION
APPROVED	-	-
CHECKED	-	-
DRAWN	RAM 05/29/2014	
CAD FILE NO.	14194A001	
PROJECT NO.	SJL14194.MAL	



KU Resources, Inc.
22 South Linden Street
Duquesne, PA 15110
412.469.9331
412.469.9336 fax
www.kuresources.com

FIGURE 1
FACILITY LOCATION MAP
1051 HIGHWAY 25 SOUTH
CITY OF MONTEVALLO
SHELBY COUNTY, ALABAMA
PREPARED FOR
STELLA-JONES CORPORATION
MONTEVALLO, ALABAMA



Note:
 Due to the lack of monumentation, the right of way shown on this map or plat, is a conservative location only. The true location will require extensive field work by this firm or the State Highway Department, should the need arise. (See Deed Bk 74 Page 84)

REVISIONS:

REVISION	DATE	DESCRIPTION

CHANGED BY: RJS 02/18/2016 APPROVED BY: RJS 02/18/2016

PREPARED BY: **KR Resources, Inc.**
 22 South Linden Street
 Duquesne, PA 15110
 412 469 9331
 412 469 9336 fax
 www.kresources.com

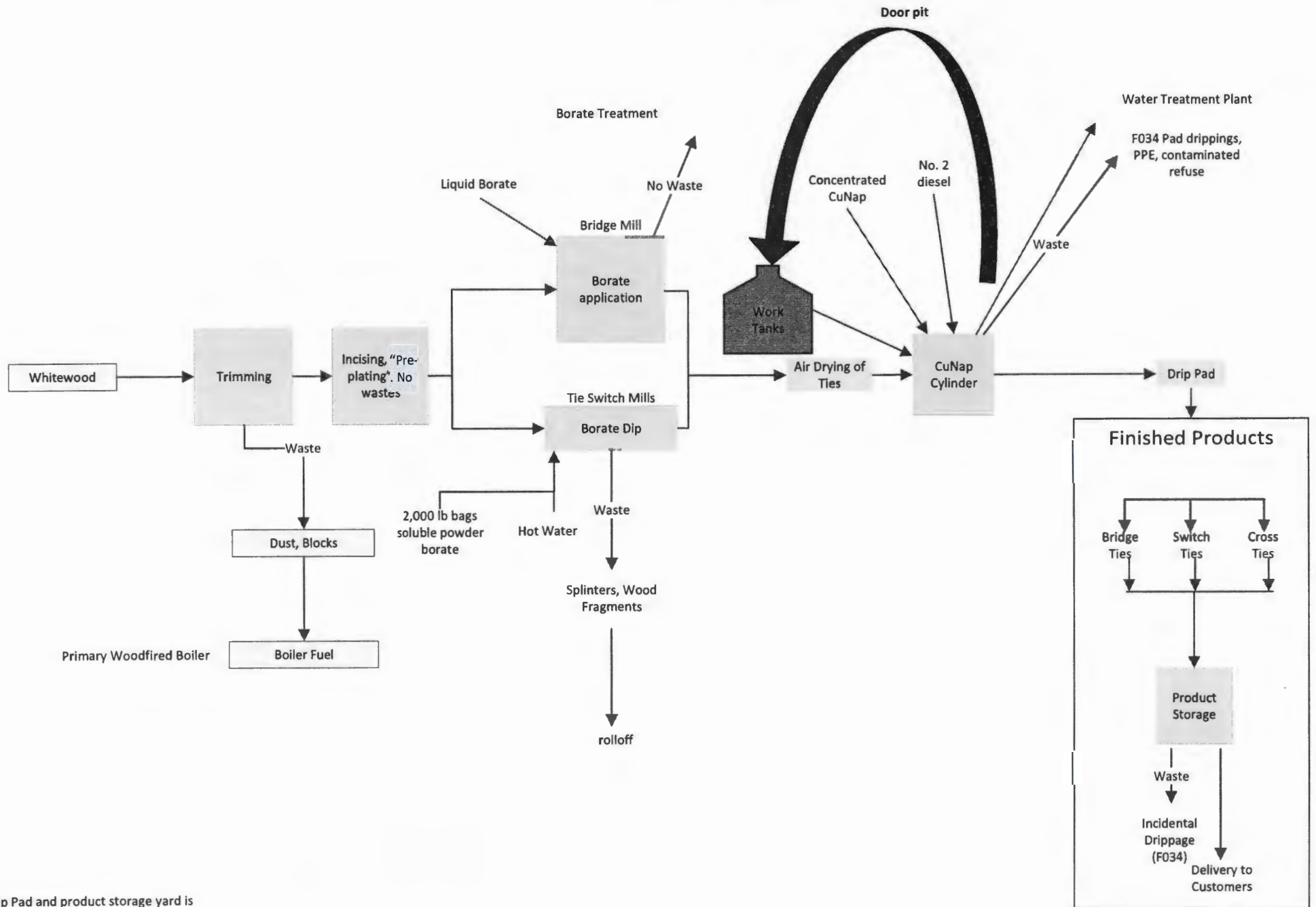
PREPARED FOR:
STELLA-JONES CORPORATION
 MONTEVALLO, ALABAMA

PROJECT:
 1051 HIGHWAY 25 SOUTH
 CITY OF MONTEVALLO
 SHELBY COUNTY, ALABAMA

DRAWING TITLE:
STORMWATER MANAGEMENT


FIGURE NO:
2

Wood Preservation Process - CuNap



Drip Pad and product storage yard is managed under Contingency Plan.

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Form Approved 03/05/19 OMB No. 2040-0004
---	----------------------------------	---------------------------------------	---

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

Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below.			
		Outfall Number	Receiving Water Name	Latitude	Longitude
		DSN001	Tennessee River	34° 38' 52"	87° 2' 1"
				° ' "	° ' "

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

Line Drawing	2.1	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.)
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

Average Flows and Treatment	3.1	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.		
		Outfall Number DSN001		
		Operations Contributing to Flow		
		Operation	Average Flow	
		Chemical Processes		0.20 mgd
				mgd
				mgd
				mgd
		Treatment Units		
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
	(1) General WW Mix Tank/ (2) 1st Neutralization Tank	10/2K	Solids from treatment process	
	(3) 2nd Neutralization Tank/ (4) Polishing Tank/ (5) Clarifier	2K/2C/1U	disposed of at Morris Farms	
	(6) Sludge Thickener/ (7) Sludge Centrifuge/ (8) Diffuser	5J/5D/None	Landfill (Hillsboro, AL) by	
	(hereinafter, collectively, "Neutralization Treatment")		Republic Services	

EPA Identification Number
110045447469

NPDES Permit Number
AL0064351

Facility Name
Daikin America, Inc.

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

Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** <u>DSN001</u>		
	Operations Contributing to Flow			
	Operation		Average Flow	
	Boiler & Colling Tower Blowdown		0.22 mgd	
			mgd	
			mgd	
			mgd	
	Treatment Units			
	Description (include size, flow rate through each treatment unit, retention time, etc.)		Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
	Neutralization Treatment		See above	See above
	The maximum flow rate through each component of the			
	treatment system is 1.44 MGD and the entire process has			
	an average retention time of 10-12 hours			
	Outfall Number <u>DSN001</u>			
	Operations Contributing to Flow			
Operation		Average Flow		
Waste Acids		0.40 mgd		
		mgd		
		mgd		
		mgd		
Treatment Units				
Description (include size, flow rate through each treatment unit, retention time, etc.)		Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge	
Neutralization Treatment		See above	See above	
System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 4.		
	3.3	Have you attached a list that identifies each user of the treatment works? <input type="checkbox"/> Yes <input type="checkbox"/> No		

EPA Identification Number
110045447469

NPDES Permit Number
AL0064351

Facility Name
Daikin America, Inc.

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

Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** 001			
		Operations Contributing to Flow			
		Operation	Average Flow		
		T-Thermal Incinerator	0.40 mgd		
			mgd		
			mgd		
			mgd		
		Treatment Units			
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge	
		Neutralization Treatment	See above	See above	
		Outfall Number			
		Operations Contributing to Flow			
Operation		Average Flow			
Resin Processes		0.22 mgd			
(This process water is first treated as described below		mgd			
and is subsequently treated in the "Neutralization		mgd			
Treatment" process described above)		mgd			
Treatment Units					
Description (include size, flow rate through each treatment unit, retention time, etc.)		Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge		
(1) Equilibration Tank (pH Adjust)/ (2) Coagulation Tank		2K/2D	Solids collected and disposed of		
(3) Flocculant Tank/ (4) Filtrate Tank/(5) DAF System	1G/1U/1H	offsite in a "waste to energy"			
(6) Carbon Filters/ (7) Sludge Thickner/ (8) Filter Press	2A/5J/5R	or incineration process			
Max Flow Rate: 0.432 MGD; Average Retention: 10 hrs					
System Users	3.2	Are you applying for an NPDES permit to operate a privately owned treatment works?			
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 4.			
	3.3	Have you attached a list that identifies each user of the treatment works?			
		<input type="checkbox"/> Yes <input type="checkbox"/> No			

EPA Identification Number
110045447469

NPDES Permit Number
AL0064351

Facility Name
Daikin America, Inc.

Form Approved 03/05/19
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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 5.						
4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
	Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
			Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
			days/week	months/year	mgd	mgd	days
			days/week	months/year	mgd	mgd	days
			days/week	months/year	mgd	mgd	days
			days/week	months/year	mgd	mgd	days
			days/week	months/year	mgd	mgd	days
			days/week	months/year	mgd	mgd	days
			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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 6.		
5.2	Provide the following information on applicable ELGs.		
	ELG Category	ELG Subcategory	Regulatory Citation
	OCPSF	Bulk Organic Chemicals	40 CFR 414, Sub. G
	OCPSF	Thermoplastic Resins	40 CFR 414, Sub. D
	OCPSF	Direct Discharge - Do Not Use EOP Biological Treatment	40 CFR 414, Sub. J

Production-Based Limitations

5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 6.		
5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.		
	Outfall Number	Operation, Product, or Material	Quantity per Day

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Form Approved 03/05/19 OMB No. 2040-0004
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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.																						
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width:45%;">Brief Identification and Description of Project</th> <th rowspan="2" style="width:15%;">Affected Outfalls (list outfall number)</th> <th rowspan="2" style="width:20%;">Source(s) of Discharge</th> <th colspan="2" style="width:20%;">Final Compliance Dates</th> </tr> <tr> <th style="width:10%;">Required</th> <th style="width:10%;">Projected</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates		Required	Projected															
	Brief Identification and Description of Project	Affected Outfalls (list outfall number)				Source(s) of Discharge	Final Compliance Dates																	
Required			Projected																					
6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (optional item) <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.								
	Table A. Conventional and Non-Conventional Pollutants								
	7.1	Are you requesting a waiver from your NPDES permitting authority for one or more of the Table A pollutants for any of your outfalls? <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.							
	Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants								
	7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.) <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.							
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">Primary Industry Category</th> <th style="width:50%;">Required GC/MS Fraction(s) (Check applicable boxes.)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Organic Chemicals Manufacturing</td> <td><input checked="" type="checkbox"/> Volatile <input checked="" type="checkbox"/> Acid <input checked="" type="checkbox"/> Base/Neutral <input checked="" type="checkbox"/> Pesticide</td> </tr> <tr> <td> </td> <td><input type="checkbox"/> Volatile <input type="checkbox"/> Acid <input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide</td> </tr> <tr> <td> </td> <td><input type="checkbox"/> Volatile <input type="checkbox"/> Acid <input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide</td> </tr> </tbody> </table>		Primary Industry Category	Required GC/MS Fraction(s) (Check applicable boxes.)	Organic Chemicals Manufacturing	<input checked="" type="checkbox"/> Volatile <input checked="" type="checkbox"/> Acid <input checked="" type="checkbox"/> Base/Neutral <input checked="" type="checkbox"/> Pesticide		<input type="checkbox"/> Volatile <input type="checkbox"/> Acid <input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide	
Primary Industry Category	Required GC/MS Fraction(s) (Check applicable boxes.)								
Organic Chemicals Manufacturing	<input checked="" type="checkbox"/> Volatile <input checked="" type="checkbox"/> Acid <input checked="" type="checkbox"/> Base/Neutral <input checked="" 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? <input type="checkbox"/> Yes <input type="checkbox"/> No		
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? <input type="checkbox"/> Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. <input checked="" type="checkbox"/> No		
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Table C. Certain Conventional and Non-Conventional Pollutants			
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	7.13	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Table D. Certain Hazardous Substances and Asbestos			
	7.14	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	7.15	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)			
	7.16	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? <input type="checkbox"/> Yes → Complete Table E. <input checked="" type="checkbox"/> No → SKIP to Section 8.		
7.17	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? <input type="checkbox"/> Yes <input type="checkbox"/> No			
SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))				
Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 9.		
	8.2	List the pollutants below.		
	1.	4.	7.	
	2.	5.	8.	
	3.	6.	9.	

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

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
		Acute Toxicity Biomonitoring	Required by NPDES Permit and submitted quarterly	<input checked="" 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? <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.			
			Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
		Name of laboratory/firm	See Attachment 1		
		Laboratory address			
		Phone number			

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

Additional Information	11.1	Has the NPDES permitting authority requested additional information? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 12.			
	11.2	List the information requested and attach it to this application.			
		1. See Attachment 2	4.		
		2.	5.		

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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 <input type="checkbox"/> w/ small business exemption request <input checked="" type="checkbox"/> w/ Table A <input checked="" type="checkbox"/> w/ Table B <input checked="" type="checkbox"/> w/ Table C <input checked="" type="checkbox"/> w/ Table D <input checked="" type="checkbox"/> w/ Table E <input 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 checked="" 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	<p>Certification Statement</p> <p><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></p> <table border="1" style="width: 100%;"> <tr> <td>Name (print or type first and last name)</td> <td>Official title</td> </tr> <tr> <td>Allan Britnell</td> <td>VP of Manufacturing; Plant Manager</td> </tr> <tr> <td>Signature</td> <td>Date signed</td> </tr> <tr> <td style="text-align: center;"><i>Allan Britnell</i></td> <td style="text-align: center;">4/1/2024</td> </tr> </table>		Name (print or type first and last name)	Official title	Allan Britnell	VP of Manufacturing; Plant Manager	Signature	Date signed	<i>Allan Britnell</i>	4/1/2024
Name (print or type first and last name)	Official title									
Allan Britnell	VP of Manufacturing; Plant Manager									
Signature	Date signed									
<i>Allan Britnell</i>	4/1/2024									

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

Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (Optional)	
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
<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 ₅)	<input type="checkbox"/>	Concentration	mg/l	40.00	40.00	17.81	52	
		Mass	ppd	362.89	362.89	144.23	52	
2. Chemical oxygen demand (COD)	<input type="checkbox"/>	Concentration	mg/l	7180	7180	2124.75	52	
		Mass						
3. Total organic carbon (TOC)	<input type="checkbox"/>	Concentration	mg/l	10.7			1	
		Mass						
4. Total suspended solids (TSS)	<input type="checkbox"/>	Concentration	mg/l	88.00		28.48	52	
		Mass	ppd	731.49		229.69	52	
5. Ammonia (as N)	<input type="checkbox"/>	Concentration	mg/l	16.10		6.44	52	
		Mass	ppd	144.65		53.74	12	
6. Flow	<input type="checkbox"/>	Rate	mgd	1.41		0.94		
7. Temperature	<input type="checkbox"/>	winter	°C	24.72	24.72	24.72	Continuous	
		summer	°C	48.11	48.11	48.11	Continuous	
8. pH	<input type="checkbox"/>	minimum	Standard units	s.u.	6.00		Continuous	
		maximum	Standard units	s.u.	8.50		Continuous	

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

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

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

Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.

Section 1. Toxic Metals, Cyanide, and Total Phenols

1.1	Antimony, total (7440-36-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.0050			1	
					Mass						
1.2	Arsenic, total (7440-38-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.0050			1	
					Mass						
1.3	Beryllium, total (7440-41-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.0050			1	
					Mass						
1.4	Cadmium, total (7440-43-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.00582			1	
					Mass						
1.5	Chromium, total (7440-47-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.0125			4	
					Mass						
1.6	Copper, total (7440-50-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.0125			4	
					Mass						
1.7	Lead, total (7439-92-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.0125			4	
					Mass						
1.8	Mercury, total (7439-97-6)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.0002			1	
					Mass						
1.9	Nickel, total (7440-02-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.0161			4	
					Mass						
1.10	Selenium, total (7782-49-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.00746			1	
					Mass						
1.11	Silver, total (7440-22-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.00125			1	
					Mass						

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

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
1.12	Thallium, total (7440-28-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.005			1		
					Mass							
1.13	Zinc, total (7440-66-6)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.050			4		
					Mass							
1.14	Cyanide, total (57-12-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.050			4		
					Mass							
1.15	Phenols, total	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							

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

2.1	Acrolein (107-02-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1		
					Mass							
2.2	Acrylonitrile (107-13-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1		
					Mass							
2.3	Benzene (71-43-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1		
					Mass							
2.4	Bromoform (75-25-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	2.98			1		
					Mass							
2.5	Carbon tetrachloride (56-23-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
2.6	Chlorobenzene (108-90-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1		
					Mass							
2.7	Chlorodibromomethane (124-48-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	1.36			1		
					Mass							
2.8	Chloroethane (75-00-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1		
					Mass							

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

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
2.10	Chloroform (67-66-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	7.04				4	
					Mass							
2.11	Dichlorobromomethane (75-27-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
2.12	1,1-dichloroethane (75-34-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
2.13	1,2-dichloroethane (107-06-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
2.15	1,2-dichloropropane (78-87-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
2.17	Ethylbenzene (100-41-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
2.18	Methyl bromide (74-83-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
2.19	Methyl chloride (74-87-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	1.06				1	
					Mass							
2.20	Methylene chloride (75-09-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
2.21	1,1,1,2,2-tetrachloroethane (79-34-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							

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

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22 Tetrachloroethylene (127-18-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1	
				Mass						
2.23 Toluene (108-88-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1	
				Mass						
2.24 1,2-trans-dichloroethylene (156-60-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1	
				Mass						
2.25 1,1,1-trichloroethane (71-55-6)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1	
				Mass						
2.26 1,1,2-trichloroethane (79-00-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1	
				Mass						
2.27 Trichloroethylene (79-01-6)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1	
				Mass						
2.28 Vinyl chloride (75-01-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00			1	
				Mass						
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)										
3.1 2-chlorophenol (95-57-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1	
				Mass						
3.2 2,4-dichlorophenol (120-83-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1	
				Mass						
3.3 2,4-dimethylphenol (105-67-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1	
				Mass						
3.4 4,6-dinitro-o-cresol (534-52-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.010			1	
				Mass						
3.5 2,4-dinitrophenol (51-28-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1	
				Mass						

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

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
3.7	4-nitrophenol (100-02-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
3.9	Pentachlorophenol (87-86-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
3.10	Phenol (108-95-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
4.2	Acenaphthylene (208-96-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
4.3	Anthracene (120-12-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
4.4	Benzidine (92-87-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0			1		
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00			1		
					Mass							

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

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.7	3,4-benzofluoranthene (205-99-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.10	Bis (2-chloroethoxy) methane (111-91-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<8.00				1	
					Mass							
4.14	4-bromophenyl phenyl ether (101-55-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.15	Butyl benzyl phthalate (85-68-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.16	2-chloronaphthalene (91-58-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.18	Chrysene (218-01-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹												
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<1.00				1	
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.24	Diethyl phthalate (84-66-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.25	Dimethyl phthalate (131-11-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<20.0				1	
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.31	Fluoranthene (206-44-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.32	Fluorene (86-73-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							

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

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.36	Hexachloroethane (67-72-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.38	Isophorone (78-59-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.39	Naphthalene (91-20-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.40	Nitrobenzene (98-95-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.44	Phenanthrene (85-01-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							
4.45	Pyrene (129-00-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1	
					Mass							

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

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)		
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.46	1,2,4-trichlorobenzene (120-82-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<2.00				1		
					Mass								
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)													
5.1	Aldrin (309-00-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1		
					Mass								
5.2	α-BHC (319-84-6)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0019				1		
					Mass								
5.3	β-BHC (319-85-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1		
					Mass								
5.4	γ-BHC (58-89-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1		
					Mass								
5.5	δ-BHC (319-86-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1		
					Mass								
5.6	Chlordane (57-74-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.004				1		
					Mass								
5.7	4,4'-DDT (50-29-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1		
					Mass								
5.8	4,4'-DDE (72-55-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1		
					Mass								
5.9	4,4'-DDD (72-54-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1		
					Mass								
5.10	Dieldrin (60-57-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1		
					Mass								
5.11	α-endosulfan (115-29-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1		
					Mass								

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

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1	
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1	
					Mass							
5.14	Endrin (72-20-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1	
					Mass							
5.15	Endrin aldehyde (7421-93-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1	
					Mass							
5.16	Heptachlor (76-44-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1	
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0004				1	
					Mass							
5.18	PCB-1242 (53469-21-9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.00049				1	
					Mass							
5.19	PCB-1254 (11097-69-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.00049				1	
					Mass							
5.20	PCB-1221 (11104-28-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.00049				1	
					Mass							
5.21	PCB-1232 (11141-16-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.00049				1	
					Mass							
5.22	PCB-1248 (12672-29-6)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.00049				1	
					Mass							
5.23	PCB-1260 (11096-82-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.00049				1	
					Mass							
5.24	PCB-1016 (12674-11-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.00049				1	
					Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹													
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)		
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
5.25	Toxaphene (8001-35-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	ug/l	<0.0024				1		
					Mass								

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

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

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
<input type="checkbox"/> Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for <i>each</i> pollutant.									
<input type="checkbox"/> Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for <i>each</i> pollutant.									
1. Bromide (24959-67-9)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	<0.500			1	
			Mass						
2. Chlorine, total residual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.25			1	
			Mass						
3. Color	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
4. Fecal coliform	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
5. Fluoride (16984-48-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	<0.100			1	
			Mass						
6. Nitrate-nitrite	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	7660.00		639.68	12	
			Mass	ppd	66009.83		5511.40	12	
7. Nitrogen, total organic (as N)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	6.23			1	
			Mass						
8. Oil and grease	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.00		0.00	12	
			Mass						
9. Phosphorus (as P), total (7723-14-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration	mg/l	0.45		0.18	12	
			Mass	ppd	3.38		1.32	12	
10. Sulfate (as SO ₄) (14808-79-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	69.9			1	
			Mass						
11. Sulfide (as S)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	<0.050			1	
			Mass						

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

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12. Sulfite (as SO ₃) (14265-45-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	<2.00			1	
			Mass						
13. Surfactants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	<0.025			1	
			Mass						
14. Aluminum, total (7429-90-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	<0.020			1	
			Mass						
15. Barium, total (7440-39-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	0.205			1	
			Mass						
16. Boron, total (7440-42-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	0.172			1	
			Mass						
17. Cobalt, total (7440-48-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	<0.005			1	
			Mass						
18. Iron, total (7439-89-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	0.078			1	
			Mass						
19. Magnesium, total (7439-95-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	171			1	
			Mass						
20. Molybdenum, total (7439-98-7)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	0.0239			1	
			Mass						
21. Manganese, total (7439-96-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	0.482			1	
			Mass						
22. Tin, total (7440-31-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	<0.0050			1	
			Mass						
23. Titanium, total (7440-32-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration	mg/l	<0.100			1	
			Mass						

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

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

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

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OMB No. 2040-0004**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹**

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2.	Acetaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
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 checked="" type="checkbox"/>	<input type="checkbox"/>	Used as raw material in Resin Processes	N/A

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OMB No. 2040-0004**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹**

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	<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"/>		
38.	Furfural	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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OMB No. 2040-0004**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹**

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	<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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OMB No. 2040-0004**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹**

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	<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"/>		
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))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	<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"/>		

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

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

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

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Form 2F NPDES		U.S Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY
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SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below			
		Outfall Number	Receiving Water Name	Latitude	Longitude
		DSN002	Bakers Creek - TN River	34° 37' 56" N	87° 2' 20" W
		DSN003	Bakers Creek - TN River	34° 37' 36" N	87° 2' 20" W
		DSN004	Bakers Creek - TN River	34° 38' 3" N	87° 2' 22" W
				° ' "	° ' "
				° ' "	° ' "
				° ' "	° ' "

SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))

Improvements	2.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 3.			
	2.2	Briefly identify each applicable project in the table below.			
		Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge	Final Compliance Dates
					Required Projected
2.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item) <input type="checkbox"/> Yes <input type="checkbox"/> No				

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

Site Drainage Map	3.1	Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)
		<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 (within a mile radius of the facility)	Total Surface Area Drained (within a mile radius of the facility)	
		DSN002	39.3 <i>specify units</i> acres	52.4 <i>specify units</i> acres	<i>specify units</i> acres
		DSN003	15.0 <i>specify units</i> acres	50.1 <i>specify units</i> acres	<i>specify units</i> acres
		DSN004	3.8 <i>specify units</i> acres	7.5 <i>specify units</i> acres	<i>specify units</i> 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>
		4.2	Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)		
		See Attachment 1			
	4.3	Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)			
		Stormwater Treatment			
		Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F-1 (list)	
			See Attachment 2	1F/1U	

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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	
		Signature		Date signed	
	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
		002, 003, 004	Required in current NPDES permit to sample and analyze effluent at regular intervals for constituents that would be indicative of non-stormwater discharges from these outfalls (e.g., TSS, oil & grease, metals)		

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. Not applicable
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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 estimated data. <input checked="" type="checkbox"/> No → See instructions regarding submission of actual 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? <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? <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? <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? <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? <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? <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? <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? <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? <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? <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? <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)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.15	Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge? <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? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.17	Have you provided information for the storm event(s) sampled in Table D? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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Discharge Information Continued	Used or Manufactured Toxics		
	7.18	Is any pollutant listed on Exhibits 2F-2 through 2F-4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?	
		<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.

SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))

Biological Toxicity Testing Data	8.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years?		
		<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	

SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))

Contract Analysis Information	9.1	Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?			
		<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	See Attachment 3		
		Laboratory address			
	Phone number				
	Pollutant(s) analyzed				

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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 checked="" type="checkbox"/> w/ site drainage map
<input checked="" type="checkbox"/> Section 4	<input checked="" 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 <input checked="" type="checkbox"/> Table B <input type="checkbox"/> w/ analytical results as an attachment <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 checked="" type="checkbox"/> w/attachments (e.g., responses for additional contact laboratories or firms)
<input checked="" type="checkbox"/> Section 10	<input type="checkbox"/>

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

Name (print or type first and last name) Allan Britnell	Official title Vice President of Manufacturing; Plant Manager
Signature <i>Allan Britnell</i>	Date signed 4/1/2024

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN002
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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))¹**

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

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	<5.00 mg/l		<5.00 mg/l		4	
2. Biochemical oxygen demand (BOD ₅)	8.22 mg/l		4.96 mg/l		4	
3. Chemical oxygen demand (COD)	84.00 mg/l		39.00 mg/l		4	
4. Total suspended solids (TSS)	102.0 mg/l		74.25 mg/l		4	
5. Total phosphorus	2.80 mg/l				1	
6. Total Kjeldahl nitrogen (TKN)	1.33 mg/l				1	
7. Total nitrogen (as N)	2.57 mg/l					
8. pH (minimum)	7.54		8.03		4	
	8.50		N/A		4	

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

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EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN002
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Form Approved 03/05/19
OMB No. 2040-0004**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))¹**

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only, use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia (NH3-N)	1.23 mg/l		0.62 mg/l		4	
Fluoride	3.74 mg/l		1.69 mg/l		4	
Total Organic Carbon	7.52 mg/l		5.46 mg/l		4	
PFOA	8.50 ug/L		3.58 ug/L		4	
PFBA	0.86 ug/L		0.56 ug/L		4	
PFOS	25.00 ug/L		12.10 ug/L		4	
PFHxA	1.20 ug/L		0.78 ug/L		4	
PFHpA	1.40 ug/L		0.67 ug/L		4	
PFBS	0.22 ug/L		0.14 ug/L		4	
PFHxS	0.77 ug/L		0.29 ug/L		4	
Nitrate Plus Nitrite - Total	0.657 mg/l				1	
Chloride	60.7 mg/l				1	
Total Dissolved Solids	170 mg/l				1	
Cyanide	<0.00500 mg/l				1	
Chromium	<0.00500 mg/l				1	
Copper	0.00622 mg/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0063451	Facility Name Daikin America, Inc.	Outfall Number DSN002 (cont'd)
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OMB No. 2040-0004
Expires 07/31/2026**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹**

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Lead	<0.00500 mg/l				1	
Nickel	<0.00500 mg/l				1	
Zinc	0.115 mg/l				1	
Chloroform	<1.00 ug/l				1	
Carbon Tetrachloride	<2.00 ug/l				1	
1,2-Dichloroethane	<1.00 ug/l				1	
Toluene	<1.00 ug/l				1	
Benzene	<1.00 ug/l				1	
Acenaphthylene	<20.0 ug/l				1	
Acenaphthene	<20.0 ug/l				1	
Acrylonitrile	2.90 ug/l				1	
Anthracene	<20.0 ug/l				1	
Benzo (K) Fluoroanthene	<20.0 ug/l				1	
Benzo (A) Pyrene	<20.0 ug/l				1	
Chlorobenzene	<1.00 ug/l				1	
Chrysene	<20.0 ug/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN002 (cont'd)
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OMB No. 2040-0004
Expires 07/31/2026**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹**

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Diethyl Phthalate	<20.0 ug/l				1	
Dimethyl Phthalate	<20.0 ug/l				1	
Ethylbenzene	<1.00 ug/l				1	
Fluoranthene	<20.0 ug/l				1	
Fluorene	<20.0 ug/l				1	
Hexachloroethane	<20.0 ug/l				1	
Methyl Chloride	<1.00 ug/l				1	
Methylene Chloride	<5.00 ug/l				1	
Nitrobenzene	<20.0 ug/l				1	
Phenanthrene	<20.0 ug/l				1	
Pyrene	<20.0 ug/l				1	
1,1-Dichloroethane	<1.00 ug/l				1	
1,1-Dichloroethylene	<1.00 ug/l				1	
1,1,1-Trichloroethane	<1.00 ug/l				1	
1,1,2-Trichloroethane	<1.00 ug/l				1	
Benzo (A) Anthracene	<20.0 ug/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN002 (cont'd)
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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1,2-Dichlorobenzene	<1.00 ug/l				1	
1,2-Dichloropropane	<1.00 ug/l				1	
1,2-Trans-Dichloroethylene	<1.00 ug/l				1	
1,2,4-Trichlorobenzene	<20.0 ug/l				1	
1,3-Dichlorobenzene	<1.00 ug/l				1	
1,4-Dichlorobenzene	<1.00 ug/l				1	
2-Nitrophenol	<20.0 ug/l				1	
2,4-Dimethylphenol	<20.0 ug/l				1	
2,4-Dinitrophenol	<20.0 ug/l				1	
4-Nitrophenol	<20.0 ug/l				1	
4,6-Dinitro-O-Cresol	<20.0 ug/l				1	
Naphthalene	<20.0 ug/l				1	
Bis (2-Ethylhexyl) Phthalate	<80.0 ug/l				1	
Di-N-Butyl Phthalate	<40.0 ug/l				1	
Vinyl Chloride	<1.00 ug/l				1	
Trichloroethylene	<1.00 ug/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN002 (cont'd)
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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Hexachlorobenzene	<20.0 ug/l				1	
Hexachlorobutadiene	<20.0 ug/l				1	
Phenols	<20.0 ug/l				1	
1,3 Dichloropropylene	<2.00 ug/l				1	
3,4 Benzofluoranthene	<20.0 ug/l				1	
Chloroethane	<1.00 ug/l				1	
Tetrachloroethylene	<1.00 ug/l				1	

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

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EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN002
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TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))¹

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Fluoride	3.74 mg/l		1.69 mg/l		4	

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

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EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility name Daikin America, Inc.	Outfall Number DSN002
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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

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

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
06/14/2023	3.5	0.57	72	2.21 in/h	0.005697 MGD

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

The flow for the sampling event is based on a 24-hour day (mid-night to mid-night). Flow is measured in million gallons per day (MGD). The modified rational method is used. The formula used for DSN002 is

$Q = ciA$

Where: Q = Volume (MGD)

c = Rational method weighted runoff coefficients for area, 0.68

i = Rainfall intensity, inches in 24-hr day

A = Drainage area, 52.4 acres

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN003
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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))¹**

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

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	<5.00 mg/l		<5.00 mg/l		4	
2. Biochemical oxygen demand (BOD ₅)	6.59 mg/l		4.00 mg/l		4	
3. Chemical oxygen demand (COD)	200.0 mg/l		60.00 mg/l		4	
4. Total suspended solids (TSS)	65.00 mg/l		34.00 mg/l		4	
5. Total phosphorus	0.22 mg/l				1	
6. Total Kjeldahl nitrogen (TKN)	2.34 mg/l				1	
7. Total nitrogen (as N)	3.39 mg/l					
8. pH (minimum)	7.4		7.8		4	
	8.1				4	

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

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EPA Identification Number 110045447469	NPDES Permit Number AL0063451	Facility Name Daikin America, Inc.	Outfall Number DSN003 (cont'd)
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OMB No. 2040-0004
Expires 07/31/2026**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹**

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Chromium, Total Recoverable	0.01 mg/l		0.00 mg/l		4	
Copper, Total Recoverable	0.01 mg/l		0.00 mg/l		4	
Lead, Total Recoverable	0.01 mg/l		0.00 mg/l		4	
Zinc, Total Recoverable	0.05 mg/l		0.03 mg/l		4	
Total Organic Carbon	12.10 mg/l		6.93 mg/l		4	
PFOA	34.00 ug/l		16.45 ug/l		4	
PFBA	2.00 ug/l		1.45 ug/l		4	
PFOS	120.0 ug/l		73.25 ug/l		4	
PFHxA	4.40 ug/l		2.70 ug/l		4	
PFHpA	6.00 ug/l		2.98 ug/l		4	
PFBS	1.20 ug/l		0.66 ug/l		4	
PFHxS	3.70 ug/l		1.76 ug/l		4	
Nickel	<0.00500 mg/l				1	
Chloroform	<1.00 ug/l				1	
Carbon Tetrachloride	<2.00 ug/l				1	
1,2-Dichloroethane	<1.00 ug/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0063451	Facility Name Daikin America, Inc.	Outfall Number DSN003 (cont'd)
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OMB No. 2040-0004
Expires 07/31/2026**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹**

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Hexachlorobutadiene	<20.0 ug/l				1	
Phenols	<20.0 ug/l				1	
1,3 Dichloropropylene	<2.00 ug/l				1	
3,4 Benzofluoranthene	<20.0 ug/l				1	
Chloroethane	<1.00 ug/l				1	
Tetrachloroethylene	<1.00 ug/l				1	
Toluene	<1.00 ug/l				1	
Benzene	<1.00 ug/l				1	
Acenaphthylene	<20.0 ug/l				1	
Acenaphthene	<20.0 ug/l				1	
Acrylonitrile	<1.00 ug/l				1	
Anthracene	<20.0 ug/l				1	
Benzo (K) Fluoroanthene	<20.0 ug/l				1	
Benzo (A) Pyrene	<20.0 ug/l				1	
Chlorobenzene	<1.00 ug/l				1	
Chrysene	<20.0 ug/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN003 (cont'd)
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OMB No. 2040-0004
Expires 07/31/2026**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹**

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Diethyl Phthalate	<20.0 ug/l				1	
Dimethyl Phthalate	<20.0 ug/l				1	
Ethylbenzene	<1.00 ug/l				1	
Fluoranthene	<20.0 ug/l				1	
Fluorene	<20.0 ug/l				1	
Hexachloroethane	<20.0 ug/l				1	
Methyl Chloride	<1.00 ug/l				1	
Methylene Chloride	<5.00 ug/l				1	
Nitrobenzene	<20.0 ug/l				1	
Phenanthrene	<20.0 ug/l				1	
Pyrene	<20.0 ug/l				1	
1,1-Dichloroethane	<1.00 ug/l				1	
1,1-Dichloroethylene	<1.00 ug/l				1	
1,1,1-Trichloroethane	<1.00 ug/l				1	
1,1,2-Trichloroethane	<1.00 ug/l				1	
Benzo (A) Anthracene	<20.0 ug/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN003 (cont'd)
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OMB No. 2040-0004
Expires 07/31/2026**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹**

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1,2-Dichlorobenzene	<1.00 ug/l				1	
1,2-Dichloropropane	<1.00 ug/l				1	
1,2-Trans-Dichloroethylene	<1.00 ug/l				1	
1,2,4-Trichlorobenzene	<20.0 ug/l				1	
1,3-Dichlorobenzene	<1.00 ug/l				1	
1,4-Dichlorobenzene	<1.00 ug/l				1	
2-Nitrophenol	<20.0 ug/l				1	
2,4-Dimethylphenol	<20.0 ug/l				1	
2,4-Dinitrophenol	<20.0 ug/l				1	
4-Nitrophenol	<20.0 ug/l				1	
4,6-Dinitro-O-Cresol	<20.0 ug/l				1	
Naphthalene	<20.0 ug/l				1	
Bis (2-Ethylhexyl) Phthalate	<80.0 ug/l				1	
Di-N-Butyl Phthalate	<40.0 ug/l				1	
Vinyl Chloride	<1.00 ug/l				1	
Trichloroethylene	<1.00 ug/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN003 (cont'd)
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OMB No. 2040-0004
Expires 07/31/2026

TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Hexachlorobenzene	<20.0 ug/l				1	
Nitrate plus Nitrite	<0.600 mg/l				1	
Total Dissolved Solids	118 mg/l				1	
Chloride	2.65 mg/l				1	
Cyanide	<0.00500 mg/l				1	

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

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EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility name Daikin America, Inc.	Outfall Number DSN003
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Form Approved 03/05/19
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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

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

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
06/14/2023	3.5	0.57	72	2.21 in/h	0.000063 MGD

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

The flow for the sampling event is based on a 24-hour day (mid-night to mid-night). Flow is measured in million gallons per day (MGD). The modified rational method is used. The formula used for DSN003 is

$Q = ciA$

Where: Q = Volume (MGD)

c = Rational method weighted runoff coefficients for area, 0.45

i = Rainfall intensity, inches in 24-hr day

A = Drainage area, 50.1 acres

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN004
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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))¹**

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

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	<5.00 mg/l		<5.00 mg/l		2	
2. Biochemical oxygen demand (BOD ₅)	0.00 mg/l		0.00 mg/l		2	
3. Chemical oxygen demand (COD)	36.00 mg/l		36.00 mg/l		2	
4. Total suspended solids (TSS)	110.0 mg/l		62.00 mg/l		2	
5. Total phosphorus	<0.500 mg/l				1	
6. Total Kjeldahl nitrogen (TKN)	1.26 mg/l		2.43 mg/l		3	
7. Total nitrogen (as N)	2.43 mg/l					
8. pH (minimum)			7.05		2	
	pH (maximum)	7.10			2	

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

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EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN004
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Form Approved 03/05/19
OMB No. 2040-0004**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))¹**

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only, use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia (NH3-N)	0.68 mg/l		0.68 mg/l		2	
Fluoride	2.14 mg/l		2.11 mg/l		2	
PFOA	2.90 ug/L		2.38 ug/L		4	
PFBA	0.40 ug/L		0.26 ug/L		4	
PFOS	17.00 ug/L		12.10 ug/L		4	
PFHxA	0.53 ug/L		0.37 ug/L		4	
PFHpA	0.70 ug/L		0.49 ug/L		4	
PFBS	0.31 ug/L		0.20 ug/L		4	
PFHxS	0.22 ug/L		0.15 ug/L		4	
Nitrate Plus Nitrite - Total	0.650 mg/L				1	
Chloride	26.9 mg/l				1	
Total Dissolved Solids	84.0 mg/l				1	
Cyanide	<0.00500 mg/l				1	
Chromium	0.00612 mg/l				1	
Copper	0.00626 mg/l				1	

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

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Expires 07/31/2026**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹**

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Lead	<0.00500 mg/l				1	
Nickel	0.00602 mg/l				1	
Zinc	0.0729 mg/l				1	
Chloroform	<1.00 ug/l				1	
Carbon Tetrachloride	<2.00 ug/l				1	
1,2-Dichloroethane	<1.00 ug/l				1	
Toluene	<1.00 ug/l				1	
Benzene	<1.00 ug/l				1	
Acenaphthylene	<20.0 ug/l				1	
Acenaphthene	<20.0 ug/l				1	
Acrylonitrile	3.47 ug/l				1	
Anthracene	<20.0 ug/l				1	
Benzo (K) Fluoroanthene	<20.0 ug/l				1	
Benzo (A) Pyrene	<20.0 ug/l				1	
Chlorobenzene	<1.00 ug/l				1	
Chrysene	<20.0 ug/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN004 (cont'd)
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OMB No. 2040-0004
Expires 07/31/2026**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹**

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Diethyl-Phthalate	<20.0 ug/l				1	
Dimethyl Phthalate	<20.0 ug/l				1	
Ethylbenzene	<1.00 ug/l				1	
Fluoranthene	<20.0 ug/l				1	
Fluorene	<20.0 ug/l				1	
Hexachloroethane	<20.0 ug/l				1	
Methyl Chloride	<1.00 ug/l				1	
Methylene Chloride	<5.00 ug/l				1	
Nitrobenzene	<20.0 ug/l				1	
Phenanthrene	<20.0 ug/l				1	
Pyrene	<20.0 ug/l				1	
1,1-Dichlorethane	<1.00 ug/l				1	
1,1-Dichloroethylene	<1.00 ug/l				1	
1,1,1-Trichloroethane	<1.00 ug/l				1	
1,1,2-Trichloroethane	<1.00 ug/l				1	
Benzo (A) Anthracene	<20.0 ug/l				1	

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

EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN004 (cont'd)
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OMB No. 2040-0004
Expires 07/31/2026**TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹**

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1,2-Dichlorobenzene	<1.00 ug/l				1	
1,2-Dichloropropane	<1.00 ug/l				1	
1,2-Trans-Dichloroethylene	<1.00 ug/l				1	
1,2,4-Trichlorobenzene	<20.0 ug/l				1	
1,3-Dichlorobenzene	<1.00 ug/l				1	
1,4-Dichlorobenzene	<1.00 ug/l				1	
2-Nitrophenol	<20.0 ug/l				1	
2,4-Dimethylphenol	<20.0 ug/l				1	
2,4-Dinitrophenol	<20.0 ug/l				1	
4-Nitrophenol	<20.0 ug/l				1	
4,6-Dinitro-O-Cresol	<20.0 ug/l				1	
Naphthalene	<20.0 ug/l				1	
Bis (2-Ethylhexyl) Phthalate	<80.0 ug/l				1	
Di-N-Butyl Phthalate	<40.0 ug/l				1	
Vinyl Chloride	<1.00 ug/l				1	
Trichloroethylene	<1.00 ug/l				1	

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

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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))¹

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Hexachlorobenzene	<20.0 ug/l				1	
Hexachlorobutadiene	<20.0 ug/l				1	
Phenols	<20.0 ug/l				1	
1,3 Dichloropropylene	<2.00 ug/l				1	
3,4 Benzofluoranthene	<20.0 ug/l				1	
Chloroethane	<1.00 ug/l				1	
Tetrachloroethylene	<1.00 ug/l				1	

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

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EPA Identification Number 110045447469	NPDES Permit Number AL0064351	Facility Name Daikin America, Inc.	Outfall Number DSN004
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TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))¹

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Fluoride	2.14 mg/l		2.11 mg/l		2	

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

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

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

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
06/14/2023	3.5	0.57	72	2.21 in/h	0.06447 MGD

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

The flow for the sampling event is based on a 24-hour day (mid-night to mid-night). Flow is measured in million gallons per day (MGD). The modified rational method is used. The formula used for DSN004 is

$Q = ciA$


Where: Q = Volume (MGD)

c = Rational method weighted runoff coefficients for area, 0.56

i = Rainfall intensity, inches in 24-hr day

A = Drainage area, 7.5 acres

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Form 2F NPDES		U.S Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY
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SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))

Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below			
		Outfall Number	Receiving Water Name	Latitude	Longitude
		007	Shoal Creek	33° 3' 52.30" N	-86° 54' 26.0" E
		003	Shoal Creek	33° 3' 52.2" N	-86° 54' 13.5" E
		002	Shoal Creek	33° 3' 45.5" N	-86° 54' 2.4" E

SECTION 2. IMPROVEMENTS (40 CFR 122.21(G)(6))

Improvements	2.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 3.				
	2.2	Briefly identify each applicable project in the table below.				
		Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge	Final Compliance Dates	
					Required	Projected
	2.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (optional item) <input type="checkbox"/> Yes <input type="checkbox"/> No				

SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(C)(1)(I)(A))

Site Drainage Map	3.1	Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)
		<input checked="" type="checkbox"/> Yes


SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(C)(1)(I)(B))

Pollutant Sources	4.1	Provide information on the facility's pollutant sources in the table below.			
		Outfall Number	Impervious Surface Area (within a mile radius of the facility)	Total Surface Area Drained (within a mile radius of the facility)	
		003	23 <i>specify units</i> acres	21,000 <i>specify units</i> sq.ft	
		007	23 <i>specify units</i> acres	21,000 <i>specify units</i> sq.ft.	
		002	196,000 <i>specify units</i> sq.ft.	9 <i>specify units</i> 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>
	4.2	Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.) Creosote and CuNap treated railroad ties are typically stored outdoors and are in contact with stormwater runoff as well as shipping and receiving of both untreated and treated railroad ties. Loading and access areas are not under cover and are also in contact with storm water. Storage yards are inspected daily and any drippage identified is cleaned up and disposed in accordance with ADEM RCRA regulations for infrequent and incidental drippage. All areas are maintained in accordance with best management practices to reduce and minimize contact with storm water.			
	4.3	Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)			
		Stormwater Treatment			
		Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F-1 (list)	
		002	Boiler blowdown is pH balanced prior to discharge.	2-k	
		003	Check dams have been placed along conveyance to slow flow and reduce solids.		
		007	Check dams have been placed along conveyance to slow flow and reduce solids.		

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

Non-Stormwater Discharges	5.1	Provide the following certification. (See instructions to determine the appropriate person to sign the application.) <i>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.</i>			
		Name (print or type first and last name) Brian Ingersoll	Official title Plant Manager		
		Signature 	Date signed 3-19-24		
	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
		007	observations/ inspections during wet or dry conditions	3/17/23, 06/14/23 8/30/23, 12/1/23	conveyance from 002
		003	observations/ inspections during wet or dry conditions	3/17/23, 06/14/23 8/30/23, 12/1/23	ditches in drainage areas
	002	observations/ inspections during wet or dry conditions	3/17/23, 06/14/23 8/30/23, 12/1/23	002	

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. None

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 estimated data. <input checked="" type="checkbox"/> No → See instructions regarding submission of actual data.
	Tables A, B, C, and D	
	7.2	Have you completed Table A for each outfall? <input checked="" type="checkbox"/> Yes

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Discharge Information Continued

<u>7.3</u>	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.5.
<u>7.4</u>	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? <input type="checkbox"/> Yes
<u>7.5</u>	Do you know or have reason to believe any pollutants in Exhibit 2F-2 are present in the discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.7.
<u>7.6</u>	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? <input checked="" type="checkbox"/> Yes
<u>7.7</u>	Do you qualify for a small business exemption under the criteria specified in the Instructions? <input type="checkbox"/> Yes → SKIP to Item 7.18. <input checked="" type="checkbox"/> No
<u>7.8</u>	Do you know or have reason to believe any pollutants in Exhibit 2F-3 are present in the discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.10.
<u>7.9</u>	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? <input checked="" type="checkbox"/> Yes
<u>7.10</u>	Do you expect any of the pollutants in Exhibit 2F-3 to be discharged in concentrations of 10 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.12.
<u>7.11</u>	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? <input type="checkbox"/> Yes
<u>7.12</u>	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.14.
<u>7.13</u>	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? <input type="checkbox"/> Yes
<u>7.14</u>	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)? <input checked="" type="checkbox"/> Yes
<u>7.15</u>	Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.17.

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Discharge Information Continued	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? <input type="checkbox"/> Yes								
	7.17	Have you provided information for the storm event(s) sampled in Table D? <input checked="" type="checkbox"/> Yes								
	Used or Manufactured Toxics									
	7.18	Is any pollutant listed on Exhibits 2F-2 through 2F-4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 8.								
	7.19	List the pollutants below, including TCDD if applicable. Attach additional sheets, if necessary. <table border="1"> <tr> <td>1. Boron, Total</td> <td>4.</td> <td>7.</td> </tr> <tr> <td>2. PAHs</td> <td>5.</td> <td>8.</td> </tr> <tr> <td>3. Copper, Total</td> <td>6.</td> <td>9.</td> </tr> </table>	1. Boron, Total	4.	7.	2. PAHs	5.	8.	3. Copper, Total	6.
1. Boron, Total	4.	7.								
2. PAHs	5.	8.								
3. Copper, Total	6.	9.								

SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(G)(11))

Biological Toxicity Testing Data	8.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 9.																
	8.2	Identify the tests and their purposes below.																
		<table border="1"> <thead> <tr> <th>Test(s)</th> <th>Purpose of Test(s)</th> <th>Submitted to NPDES Permitting Authority?</th> <th>Date Submitted</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> </tbody> </table>	Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted			<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted														
		<input type="checkbox"/> Yes <input type="checkbox"/> No																
		<input type="checkbox"/> Yes <input type="checkbox"/> No																
		<input type="checkbox"/> Yes <input type="checkbox"/> No																

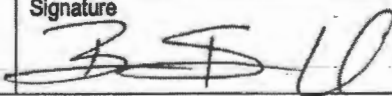
SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(G)(12))

Contract Analysis Information	9.1	Were any of the analyses reported in Section 7 (in Tables A through C) performed by a contract laboratory or consulting firm? <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.																				
		<table border="1"> <thead> <tr> <th></th> <th>Laboratory Number 1</th> <th>Laboratory Number 2</th> <th>Laboratory Number 3</th> </tr> </thead> <tbody> <tr> <td>Name of laboratory/firm</td> <td>Guardian Systems, LLC</td> <td></td> <td></td> </tr> <tr> <td>Laboratory address</td> <td>1108 Ashville Road PO Box 190 [Address]</td> <td></td> <td></td> </tr> <tr> <td>Phone number</td> <td>(205) 699-6647</td> <td></td> <td></td> </tr> <tr> <td>Pollutant(s) analyzed</td> <td>PAHs, Inorganics</td> <td></td> <td></td> </tr> </tbody> </table>		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3	Name of laboratory/firm	Guardian Systems, LLC			Laboratory address	1108 Ashville Road PO Box 190 [Address]			Phone number	(205) 699-6647			Pollutant(s) analyzed	PAHs, Inorganics		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3																		
	Name of laboratory/firm	Guardian Systems, LLC																				
	Laboratory address	1108 Ashville Road PO Box 190 [Address]																				
Phone number	(205) 699-6647																					
Pollutant(s) analyzed	PAHs, Inorganics																					

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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 <input type="checkbox"/> Table B <input type="checkbox"/> w/ analytical results as an attachment <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		
	10.2	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement	
		<i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) Brian Ingersoll	Official title Plant Manager
		Signature 	Date signed 3-19-24

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(C)(1)(I)(E)(3))¹

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

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	<5.0 mg/L		<5.0 mg/L		4	
2. Biochemical oxygen demand (BOD ₅)	<1.0 mg/L	N/A	<1.0 mg/L	N/A	1	
3. Chemical oxygen demand (COD)	<10 mg/L	N/A	<10 mg/L	N/A	1	
4. Total suspended solids (TSS)	297 mg/L	N/A	180.5 mg/L	N/A	4	
5. Total phosphorus	0.04 mg/L	N/A	0.04 mg/L	N/A	1	
6. Total Kjeldahl nitrogen (TKN)	0.6 mg/L	N/A	0.6 mg/L	N/A	1	
7. Total nitrogen (as N)	2 mg/L	N/A	2 mg/L	N/A	1	
8. pH (minimum)	7.9 SU		8.14 SU		4	
	8.31 SU		8.14 SU		4	

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

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TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(B) AND (VII))¹

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
TSS	297 mg/L	N/A	180.5 mg/L	N/A	4	
Oil & Grease	12 mg/L	N/A	6.25 mg/L	N/A	4	
Chromium (total)	<0.02 mg/L	N/A	<0.02 mg/L	N/A	4	
Copper (total)	0.03 mg/L	N/A	<0.02 mg/L	N/A	4	
Arsenic	0.005 mg/L	N/A	0.004 mg/L	N/A	4	
Acenaphthylene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Acenaphthene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Anthracene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(a)anthracene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(b)fluoranthene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(k)fluoranthene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(ghi)perylene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(a)pyrene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Chrysene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Fluoranthene	5.8 ug/L	N/A	<4.15 ug/L	N/A	2	
Fluorene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	

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

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TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(B) AND (VII))¹

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Phenanthrene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Indeno(1,2,3-cd)pyrene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
2,4-Dimethylphenol	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
2,4,6-Trichlorophenol	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Phenol	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Benzo(a)floranthene	<5.0 ug/L	N/A	<3.0 ug/L	N/A	4	
Naphthalene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Pyrene	6.6	N/A	<3.5 ug/L	N/A	4	

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

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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(C)(1)(I)(E)(6))

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

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
06/14/2023	4	2.38	499	0.55	1,365,912 Gallons

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

Volume (Gallons) = I x A x C

I - Rainfall amount (feet)

A - Area (Square feet) drained to outfall

C - Runoff Coefficient (

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(C)(1)(I)(E)(3))¹

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

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	<5.0 mg/L		<5.0 mg/L		4	
2. Biochemical oxygen demand (BOD ₅)	<1.0 mg/L	N/A	<1.0 mg/L	N/A	1	
3. Chemical oxygen demand (COD)	<10 mg/L	N/A	<10 mg/L	N/A	1	
4. Total suspended solids (TSS)	267 mg/L	N/A	183.8 mg/L	N/A	4	
5. Total phosphorus	0.04 mg/L	N/A	0.04 mg/L	N/A	1	
6. Total Kjeldahl nitrogen (TKN)	<0.5 mg/L	N/A	<0.5 mg/L	N/A	1	
7. Total nitrogen (as N)	2 mg/L	N/A	2 mg/L	N/A	1	
8. pH (minimum)	7.81 SU		8.13 SU		4	
	8.39 SU		8.13 SU		4	

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

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TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(B) AND (VII))¹

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
TSS	267 mg/L	N/A	183.75 mg/L	N/A	4	
Oil & Grease	<5.0 mg/L	N/A	<5.0 mg/L	N/A	4	
Chromium (total)	<0.02 mg/L	N/A	<0.02 mg/L	N/A	4	
Copper (total)	0.05 mg/L	N/A	<0.03 mg/L	N/A	4	
Arsenic	0.004 mg/L	N/A	0.003 mg/L	N/A	4	
Acenaphthylene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Acenaphthene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Anthracene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(a)anthracene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(b)fluoranthene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(k)fluoranthene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(ghi)perylene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
Benzo(a)pyrene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Chrysene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Fluoranthene	11 ug/L	N/A	<6.75 ug/L	N/A	2	
Fluorene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	

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

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TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(B) AND (VII))¹

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Phenanthrene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Indeno(1,2,3-cd)pyrene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	
2,4-Dimethylphenol	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
2,4,6-Trichlorophenol	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Phenol	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Benzo(a)floranthene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Naphthalene	<5.0 ug/L	N/A	<5.0 ug/L	N/A	2	

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

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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(C)(1)(I)(E)(6))

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

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
06/14/2023	4	2.38	499	0.65	1,365,912 Gallons

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

Volume (Gallons) = I x A x C

- I - Rainfall amount (feet)
- A - Area (Square feet) drained to outfall
- C - Runoff Coefficient (

Effluent Characteristics Continued	4.3	Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.5.					
	4.4	Provide data as requested in the table below. ¹ (See instructions for specifics.)					
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)	Source (use codes per instructions)
				Mass	Conc.	Mass	
		Fecal coliform					
		<i>E. coli</i>					
		Enterococci					
	4.5	Is chlorine used (or will it be used)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 4.7.					
	4.6	Provide data as requested in the table below. ² (See instructions for specifics.)					
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)	Source (use codes per instructions)
			Mass	Conc.	Mass	Conc.	
	Total residual chlorine	4	0	0	0	0	
4.7	Is non-contact cooling water discharged (or will it be discharged)? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 5.						
4.8	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
	Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)	Source (use codes per instructions)	
			Mass	Conc.	Mass		Conc.
	Chemical oxygen demand (COD)	1		<10		<10	
	Total organic carbon (TOC)	1		1		1	
SECTION 5. FLOW (40 CFR 122.21(H)(5))							
Flow	5.1	Except for stormwater water runoff, leaks, or spills, are any of the discharges you described in Sections 1 and 3 of this application intermittent or seasonal? <input type="checkbox"/> Yes → Complete this section. <input checked="" type="checkbox"/> No → SKIP to Section 6.					
	5.2	Briefly describe the frequency and duration of flow.					
SECTION 6. TREATMENT SYSTEM (40 CFR 122.21(H)(6))							
Treatment System	6.1	Briefly describe any treatment system(s) used (or to be used). No treatment system.					

² 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).

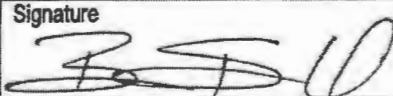
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SECTION 7. OTHER INFORMATION (40 CFR 122.21(H)(7))

Other Information	<u>7.1</u>	Use the space below to expand upon any of the above items. Use this space to provide any information you believe the reviewer should consider in establishing permit limitations. Attach additional sheets as needed. (optional item) N/A
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SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))

Checklist and Certification Statement	<u>8.1</u>	In Column 1 below, mark the sections of Form 2E that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
		Column 1	Column 2
		<input checked="" type="checkbox"/> Section 1: Outfall Location	<input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)
		<input type="checkbox"/> Section 2: Discharge Date	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 3: Waste Types	<input checked="" type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 4: Effluent Characteristics	<input type="checkbox"/> w/ attachments
		<input type="checkbox"/> Section 5: Flow	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 6: Treatment System	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 7: Other Information	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 8: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments
	<u>8.2</u>	Certification Statement	
		<i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
	Name (print or type first and last name)	Official title	
	Brian Ingersoll	Plant Manager	
	Signature	Date signed	
		3-19-24	

***** Section 1 - IDENTIFICATION*****

Product Identifier:

UP-50

Recommended Use

Various industrial applications. Wood treatment.

Restrictions on Use

None known.

Manufactured for:

Viance, LLC.
8001-IBM Drive
Charlotte, NC 28262

Phone: 704-522-0825
Fax: 704-527-8232
Emergency #: CHEMTREC: (800) 424-9300, 1-703-527-3887 for U.S. and Canadian shipments ONLY

General Comments

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

***** Section 2 - HAZARD(S) IDENTIFICATION*****

Classification in accordance with 29 CFR 1910.1200.

Eye damage/irritation, Category 1
Acute Toxicity – Oral, Category 4
Acute Toxicity – Inhalation, Category 4

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Danger

Hazard Statement(s)

Causes serious eye damage.
Harmful if swallowed.
Harmful if inhaled.



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Precautionary Statement(s)

Prevention

- Wear eye protection/face protection.
- Wash exposed skin thoroughly after handling.
- Do not eat, drink or smoke while using this product.
- Avoid breathing dust/fume/gas/mist/spray.
- Use only outdoors or in a well-ventilated area.

Response

IF ON SKIN: Wash with plenty of water. If skin irritation persists: Get medical advice attention. Take off contaminated clothing and wash before reuse.

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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified

This product is produced and shipped in solid block form that is either placed in a large clear polyethylene bag and then in a polyethylene woven fabric super sack as a 2,000 lb block; or in an approximate 500 lb metal container. As supplied, this product is moderately irritating to skin.

As supplied, generation of dusts is unlikely. Avoid handling conditions which could result in the formation of dust, flaking or breakage of the solid block products. May form combustible dust concentrations in air if dust is generated.

*** Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS***

CAS #	Component	Percent
64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (DCOIT)	50
Proprietary *	Wax 1 *	25
Proprietary *	Wax 2 *	25

* Specific chemical identity and CAS # has been withheld as a trade secret.

Component Information/Information on Non-Hazardous Components

This product is an approved pesticide registered with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). Pesticide Registration Number 83007-14.

This Safety Data Sheet, as distributed with the pesticide product, is part of the pesticide labeling governed by the Environmental Protection Agency (40 CFR Parts 152-186) and provides information supplemental to the FIFRA



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required label on product packaging. This product is subject to certain labeling requirements under federal pesticide law. These requirements differ from classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels on non-pesticide chemicals. See Section 15 for specific pesticide labeling requirements. READ PRODUCT LABEL FOR COMPLETE INFORMATION.

This product is considered hazardous under the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

*** Section 4 - FIRST-AID MEASURES***

Description of Necessary Measures

Inhalation

IF INHALED: Under normal conditions of handling, the product as supplied is not expected to present an inhalation hazard. As supplied, generation of dusts is unlikely. Avoid handling conditions which could result in the formation of dust, flaking or breakage of the solid block products. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

IF ON SKIN (or hair): As supplied, this product is moderately irritating to skin. Wash with plenty of water. If skin irritation persists: Get medical advice attention. Take off contaminated clothing and wash before reuse.

Eye Contact

IF IN EYES: Physical properties of the product prevent aerosolization. As supplied, generation of dusts is unlikely. Avoid handling conditions which could result in the formation of dust, flaking or breakage of the solid block products. If in eyes, wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion

IF SWALLOWED: Under normal conditions of handling product, ingestion is not expected to be a route of exposure. If ingested, rinse mouth with water. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Ensure that medical personnel are aware of the material(s) involved.

*** Section 5 - FIRE-FIGHTING MEASURES***

Suitable Extinguishing Media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

Unsuitable Extinguishing Media

Do not use water jet. Material may float on water and can spread fire.



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Specific Hazards Arising from the Chemical

Do not direct a solid stream of water or foam into burning material. This may cause spattering and spread the fire.

Hazardous Decomposition Products

During a fire, smoke may contain the combustion products hydrogen chloride, nitrogen oxides, sulfur oxides, and oxides of carbon.

Special Protective Equipment and Precautions for Firefighters

Keep people away. Isolate fire and deny unnecessary entry. Do not use direct water stream. May spread fire.

Fire Fighting Measures

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0 Other: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe



*** Section 6 - ACCIDENTAL RELEASE MEASURES***

Personal Precautions, Protective Equipment and Emergency Procedures

This product is produced and shipped in a 2000 lb solid block form and is placed in a large clear polyethylene bag and then placed in a polyethylene woven fabric super sack; or in an approximate 500 lb metal container. The block is placed on a pallet and the wrapped block is strapped to the pallet for shipment to the customer who will remove the solid block from the wrapping or container and place it in a dissolver vessel where it is dissolved in a hot solvent to produce the final liquid product.

Avoid handling and storage conditions which could result in the formation of dust, flaking or breakage of the solid block products.

Methods and Materials for Containment

No containment procedures are needed, as this product cannot spill or leak in present form.

Methods and Materials for Containment and Cleaning Up

Pick up and place in appropriate containers for reuse or disposal. Any waste generated should be evaluated in accordance with applicable hazardous and solid waste regulations. See Section 13, Disposal Considerations, for additional information.

*** Section 7 - HANDLING AND STORAGE***

Precautions for Safe Handling

Do not get in eyes. Do not get on skin or clothing. Wash exposed skin thoroughly after handling. Keep container closed. Use with adequate ventilation. Molten wax should not be exposed to water, as it may splatter. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for Safe Storage, including any Incompatibilities

Store in a cool, dry, locked, well-ventilated area. Store away from direct sunlight and any sources of heat. Do not store this material in open or unlabeled containers. See product label for more information.

Incompatibilities

Avoid contact with oxidizing materials. Avoid contact with: Acids. Bases. Halogens. Metal oxides

*** Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION ***
--

Component Exposure Limits

Exposure limits for this product has not been established.

Component Exposure Limits

Wax 1 (Proprietary)

ACGIH:	2 mg/m ³ TWA (fume)
NIOSH:	2 mg/m ³ TWA (fume)
Alberta:	2 mg/m ³ TWA (fume)
British Columbia:	2 mg/m ³ TWA (fume)
Manitoba:	2 mg/m ³ TWA (fume)
Newfoundland and Labrador:	2 mg/m ³ TWA (fume)
Northwest Territories:	2 mg/m ³ TWA (fume)
Ontario:	2 mg/m ³ TWA (fume)
Prince Edward Island:	2 mg/m ³ TWA (fume)
Saskatchewan:	2 mg/m ³ TWA (fume) 4 mg/m ³ STEL (fume)
Yukon:	2 mg/m ³ TWA (fume) 6 mg/m ³ STEL (fume)

Appropriate Engineering Controls

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment. Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Use protective eyewear. When handling hot material: Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes.

Skin Protection

Use gloves chemically resistant to this material. Use gloves with insulation for thermal protection, when needed. Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. When handling hot material, protect skin from thermal burns. Selection of specific items will depend on the operation.

Respiratory Protection

Not generally required except when in liquid form. Where exposure to hot liquids have not been evaluated and/or local exhaust ventilation systems are not in use, a minimum ½ face-piece NIOSH approved respirator with cartridges approved for organic vapors, acid gases, and particulate matter is recommended. Respirators should be selected by and used under the direction of a trained health and safety professional following the requirements found in OSHA's respirator standard (29 CFR 1901.134) and ANSI's standard for respiratory protection (Z88.2-1992), applicable U.S. regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. A written respiratory protection program, including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage, must be implemented.

* * * Section 9 - PHYSICAL AND CHEMICAL PROPERTIES* * *

Appearance:	Pale Yellow to White	Odor:	None to mild petroleum
Physical State:	Solid	Odor Threshold:	Not Available
Vapor Pressure:	Not available	pH:	3.55 (1% wt/wt)
Vapor Density:	Not available	Specific Gravity:	1.079
Boiling Point / Boiling Range:	Not available	Evaporation Rate:	Not Available
Melting Point / Freezing Point:	75-85 °C / Not available	Relative Density:	Not Available
Solubility (H₂O):	Insoluble	Auto-ignition Temperature:	Not available
Flash Point:	>100 °C (>212 °F)	Decomposition Temperature:	Not available
Upper Flammable Limit (UFL):	Not available	Lower Flammable Limit (LFL):	Not available
Viscosity:	Not available	Partition Coefficient (n-octanol / water):	Not available
Flammability (solid, gas):	Not applicable		

* * * Section 10 - STABILITY AND REACTIVITY* * *

Chemical Stability

This product is stable material under normal conditions of temperature and pressure.

Possibility of Hazardous Reactions

Does not occur.

Conditions to Avoid

Exposure to elevated temperatures can cause product to melt. Avoid dust formation.



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Incompatible Materials

Avoid contact with oxidizing materials.

Hazardous Decomposition Products

Decomposition products depend upon temperature and the presence of other materials.

* * * Section 11 - TOXICOLOGICAL INFORMATION * * *

Product Toxicity

Acute Oral: 2000mg/kg

Acute dermal: >5000 mg/kg

Acute inhalation: As supplied, product cannot be aerosolized.

Skin irritation: Moderately irritating to the skin

Skin Sensitization: Not a contact skin sensitizer.

Eye irritation: Corrosive.

Component Toxicity

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Acute oral toxicity - Low toxicity if swallowed. Swallowing may result in irritation or burns of the mouth, throat, and gastrointestinal tract.

Acute dermal toxicity - Prolonged or widespread skin contact may result in absorption of harmful amounts.

Acute inhalation toxicity - Inhalation is unlikely due to physical state.

Component Analysis - LD50/LC50

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Acute Oral LD50 Rat; 1,636 mg/kg; Acute Dermal LD50 Rabbit; >652 mg/kg; Acute Inhalation LC50 Rat 4 hr (male and female): 0.26 mg/L 6 hr (Dust/Mist)

Wax 1 (Proprietary)

Acute Dermal, LC50 Rabbit > 5,000 mg/kg; Acute Oral, LD50 Rat > 5,000 mg/kg; Skin Corrosion/Irritation (Rabbit) – Not irritating; Eye Damage/Irritation (Rabbit) – Not Irritating; Respiratory or Skin Sensitization (Guinea Pig) – Not sensitizing.

Wax 2 (Proprietary)

Acute Dermal, LC50 Rabbit > 3,600 mg/kg;

Information on Likely Routes of Exposure

Inhalation

Under normal conditions of handling, the product as supplied is not expected to present an inhalation hazard. As supplied, generation of dusts is unlikely. Avoid handling conditions which could result in the formation of dust, flaking or breakage of the solid block products.

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Ingestion

Under normal conditions of handling product, ingestion is not expected to be a route of exposure. As supplied, generation of dusts is unlikely. Avoid handling conditions which could result in the formation of dust, flaking or breakage of the solid block products.

Skin Contact

Skin absorption is unlikely due to physical form and properties. As supplied, this product is moderately irritating to skin.

Component Skin Corrosion/Irritation

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

Eye Contact

Causes serious eye damage.

Component Eye Damage/Irritation

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Immediate Effects

Serious eye damage and moderate skin irritation.

Delayed Effects

No data available.

Medical Conditions Aggravated by Exposure

No data Available.

Irritation/Corrosivity Data

Moderate skin irritation. Serious eye damage.

Respiratory Sensitization

No data available for product.

Component Respiratory Sensitization

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

No relevant data found.

Dermal Sensitization

No data available for product.

Component Dermal Sensitization

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Has caused allergic skin reactions when tested in guinea pigs.

Germ Cell Mutagenicity

No data available for product.

Component Germ Cell Mutagenicity

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Non-mutagenic

Carcinogenicity

Component Carcinogenicity

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)



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Active ingredient did not cause cancer in laboratory animals.

Reproductive Toxicity

No data available for product.

Component Reproductive Toxicity

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

This product is not a reproductive hazard.

Specific Target Organ Toxicity - Single Exposure

No information available for product.

Component Specific Target Organ Toxicity - Single Exposure

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

May cause respiratory irritation. Route of Exposure: Inhalation Target Organs: Respiratory Tract

Specific Target Organ Toxicity - Repeated Exposure

No information available

Aspiration Hazard

Not classified.

* * * Section 12 - ECOLOGICAL INFORMATION * * *

Ecotoxicity

This product can be harmful to both terrestrial and aquatic plant or animal life.

Component Analysis - Aquatic Toxicity

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Fish: Oncorhynchus mykiss (rainbow trout) LC50 96 hr; 0.0027 mg/L [flow-through];
Lepomis macrochirus (bluegill sunfish) LC50 96 hr; 0.014 mg/L [flow-through];

Invertebrae: Daphnia magna (Water Flea) EC50 48 hr; 0.0052 mg/L

Algae: Pseudokirchneriella subcapitata (green algae) ErC50, 72 hr; 0.048 mg/L [static]; Pseudokirchneriella subcapitata (green algae) ErC50, 72 hr; 0.077 mg/L [static];

Bacteria: Activated sludge, Respiration rates EC50; 5.70 mg/L.

Wax 1 (Proprietary)

Fish: Pimephales promelas (fathead minnow) LL50 96 hr; >100 mg/L

Invertebrae: Daphnia magna (Water Flea) LL50; >10,000 mg/L

Algae: Pseudokirchneriella subcapitata (green algae) ErC50, 72 hr; ≥100 mg/L

Persistence and Degradability

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Biodegradability: Readily biodegradable

Method: Simulation study

Stability in Water (1/2-life) - DT50, 1.2 d

Bioaccumulation Potential

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Partition coefficient: n-octanol/water(log Pow): 2.8 OECD Test Guideline 107 or Equivalent



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Bioconcentration factor (BCF): < 13 Fish.

Mobility in Soil

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Expected to be relatively immobile in soil (Koc > 5000).

Partition coefficient (Koc): 6610

*** Section 13 - DISPOSAL CONSIDERATIONS***

Disposal Methods

This material as supplied has been tested in accordance with EPA requirements and does not exhibit any characteristics of a hazardous waste, or contain any contaminant listed in 40 CFR 261.24 as determined by the Toxicity Characteristic Leaching Procedure (EPA Method 1311).

Dispose of material according to Local, State, Federal, and Provincial Environmental Regulations.

Disposal of Contaminated Packaging

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

*** Section 14 - TRANSPORT INFORMATION***

US DOT Information

Shipping Name: Not a regulated dangerous good.

Canada Transportation of Dangerous Goods Information

Shipping Name: Not a regulated dangerous good.

IMDG

Shipping Name: Not a regulated dangerous good.

*** Section 15 - REGULATORY INFORMATION***

U.S. Federal Regulations

This material does not contain chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4). SARA Section 312 (Tier II) may be applicable depending on onsite storage quantities.

SARA 311/312: See Section 2 for Physical and Health Hazards to be listed on Tier II form EPA 8700-30, or equivalent.

Federal Insecticide, Fungicide, and Rodenticide Act

This product is a pesticide product registered by the Environmental Protection Agency and is subject to certain



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labeling requirements under federal pesticide law. These requirements differ from classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels on non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

DANGER

Corrosive

Causes irreversible eye damage and skin burns.

May be fatal in inhaled.

Harmful if swallowed.

Harmful if absorbed through the skin.

To follow the recommendations above, registrants should reprint the FIFRA hazard statements (e.g., "Causes irreversible eye damage and skin burns"), signal word, and symbol (if required) in Section 15 ("Regulatory Information") of the SDS. Other elements of the FIFRA label, such as directions for use, should not be included."

This product is toxic to fish and aqueous invertebrates.

EPA Registration No. 83997-14

Component Marine Pollutants

This material does not contain chemicals required by US DOT to be identified as marine pollutants.

U.S. State Regulations

State Regulations

Other state regulations may apply. Check individual state requirements.

Component Analysis – State

Component	CAS	CA	MA	MN	NJ	PA	RI
4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	64359-81-5	No	No	No	No	No	No
Wax 1	Proprietary	Yes	Yes	Yes	Yes	Yes	No
Wax 2	Proprietary	No	No	No	No	No	No

No components are listed on the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

Component Analysis - WHMIS IDL

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List (IDL). The List is composed of chemicals which must be identified on MSDSs if they are included in products which fall under WHMIS criteria specified in the Controlled Products Regulations and present above the threshold limits listed on the IDL. This product does not contain components listed on the IDL.

WHMIS Classification:

D2B - Toxic Material at $\geq 1\%$ (Skin/Eye Irritation)



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Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AU	MX	JP	PH	KR	CH
4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	64359-81-5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wax 1	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wax 2	Proprietary	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

* * * Section 16 - OTHER INFORMATION * * *

Summary of Changes

New SDS: 08/20/2020 v.1.0; 03/12/2021 v.1.5 – CAS change for Wax 2 by vendor. 04/08/2022 v.2.0 – Added FIFRA registration number Section 3 and FIFRA information Section 15.

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; **AU** - Australia; **BOD** - Biochemical Oxygen Demand; **C** - Celsius; **CA** - Canada; **CAS** - Chemical Abstracts Service; **CERCLA** - Comprehensive Environmental Response, Compensation, and Liability Act; **CFR** - Code of Federal Regulations; **CN** - China; **CNS** - Central Nervous System; **CPR** - Controlled Products Regulations; **cSt** - Centistokes; **DOT** - Department of Transportation; **DSL** - Domestic Substances List; **EbC50** - Acute Endpoint - the concentration of a test substance which results in a 50 percent reduction in biomass growth; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **ELINCS** - European List of Notified Chemical Substances; **EPA** - Environmental Protection Agency; **ERG** - Emergency Response Guide; **ErC50** - EC50 (lethal concentration) in terms of reduction of growth weight; **EU** - European Union; **F** - Fahrenheit; **HEPA** - High Efficiency Particulate Air; **HMIS** - Hazardous Material Information System; **HPV** - High Production Volume Chemical (EU); **IARC** - International Agency for Research on Cancer; **IATA** - International Air Transport Association; **ICL** - In Commerce List (Canada); **IDL** - Ingredient Disclosure List; **IDLH** - Immediately Dangerous to Life and Health; **IMDG** - International Maritime Dangerous Goods; **JP** - Japan; **KR** - Korea; **LL** - Lethal Loading; **LLNA** - Local Lymph Node Assay; **LEL** - Lower Explosive Limit; **LMPE-CT** - Short term exposure limit; **LMPE-PPT** - Límite Máximo Permissible de Exposición Promedio Ponderado en el Tiempo (Mexico TWA equivalent); **MITI** - Japan Ministry of International Trade and Industry; **mg/Kg** - milligrams per Kilogram; **mg/L** - milligrams per Liter; **mg/m³** - milligrams per Cubic Meter; **MSHA** - Mine Safety and Health Administration; **MX** - Mexico; **NA** - Not Applicable or Not Available; **NFPA** - National Fire Protection Association; **NIOSH** - National Institute for Occupational Safety and Health; **NJTSR** - New Jersey Trade Secret Registry; **NTP** - National Toxicology Program; **NZ** - New Zealand; **OSHA** - Occupational Safety and Health Administration; **PH** - Philippines; **RCRA** - Resource Conservation & Recovery Act; **SARA** - Superfund Amendments and Reauthorization Act; **STEL** - Short Term Exposure Limit; **STEV** - Short-term Exposure Values; **TDG** - Transport Dangerous Goods; **TSCA** - Toxic Substances Control Act; **TWA** - Time Weighted Average; **TWAEV** - Time Weighted Average Exposure Values; **UEL** - Upper Explosive Limit; **US** - United States; **VLE-CT** - Short term exposure limit value; **VLE-PPT** - Time weighted average limit value; **WHMIS** - Workplace Hazardous Materials Information System

Other Information

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation



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to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

End of Sheet VIA-291

***** Section 1 - IDENTIFICATION*******Product Identifier:**

UP-50 Work Solution with Hi-Flash Diesel Fuel

Recommended Use

Various industrial applications. Wood treatment.

Restrictions on Use

None known.

Manufactured for:Viance, LLC.
8001-IBM Drive
Charlotte, NC 28262Phone: 704-522-0825
Fax: 704-527-8232
Emergency #: CHEMTREC: (800) 424-9300, 1-703-527-3887 for U.S. and Canadian shipments ONLY**General Comments**

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

***** Section 2 - HAZARD(S) IDENTIFICATION*******Classification in accordance with 29 CFR 1910.1200.**Aspiration Hazard, Category 1
Sensitization - Skin, Category 1
Skin corrosion/irritation, Category 2
Carcinogenicity, Category 2
Specific Target Organ Toxicity – Repeated Exposure, Category 2
Flammable Liquids, Category 3
Acute Toxicity – Inhalation, Category 3**GHS LABEL ELEMENTS****Symbol(s)****Signal Word**

Danger

UP-50 Work Solution with Hi-Flash Diesel

SDS ID: VIA-301

Hazard Statement(s)

May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.
Causes skin irritation.
Suspected of causing cancer.
May cause damage to thymus, liver, bone marrow through prolonged or repeated exposure.
Flammable liquid and vapor.
Harmful if inhaled

Precautionary Statement(s)

Prevention

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
Wash exposed skin thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/ hot surfaces – No Smoking.
Ground/bond container and receiving equipment.
Use only non-sparking tools.
Use explosion-proof electrical/ventilating/ lighting/ equipment.
Keep container tightly closed.
Take precautionary measures against static discharge.
Wear protective gloves/ eye protection/ face protection.
Use only outdoors or in a well-ventilated area.

Response

IF exposed or concerned: Get medical attention.

IF ON SKIN: Take off immediately contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation persists: Get medical advice attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician for advice/attention.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified

None

***** Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS*****

CAS #	Component	Percent
68476-34-6	Diesel Fuel (Hi-Flash)	94 - 98
91-20-3	Naphthalene*	1 - 3
64359-81-5	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	1 - 3
8002-74-2	Paraffin waxes and hydrocarbon waxes	0.5 - 1.5
8002-74-2	Microcrystalline wax	0.5 - 1.5

* Naphthalene is a component of Diesel Fuel Hi-Flash

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication), and the criteria specified in the Canadian Workplace Hazardous Materials Information System (WHMIS).

***** Section 4 - FIRST-AID MEASURES*****

Description of Necessary Measures

Inhalation

IF INHALED: Move person to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.

If not breathing, give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask, etc.). If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Skin Contact

IF ON SKIN (or hair): Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse. Suitable emergency safety shower facility should be immediately available.

Eye Contact

IF IN EYES: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. If eye irritation persists: Get medical advice/attention.

Ingestion

IF SWALLOWED: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

Most important symptoms and effects, both acute and delayed:

Diesel Fuel (68476-34-6)

Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking. Prolonged or repeated exposure may cause adverse effects to the thymus, liver, and bone marrow.

Indication of any immediate medical attention and special treatment needed

Notes to physician: If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether to induce vomiting or not should be made by a physician. May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Maintain adequate ventilation and oxygenation of the patient. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

INHALATION: Diesel Fuel sensitizes the myocardium to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.

* * * Section 5 - FIRE-FIGHTING MEASURES * * *

Suitable Extinguishing Media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Do not use direct water stream. May spread fire. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function.

Unsuitable Extinguishing Media

No data available.

Specific Hazards Arising from the Chemical

Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. This product has been determined to be a flammable liquid per the OSHA Hazard Communication Standard and should be handled accordingly. May accumulate electrostatic charge and ignite or explode. Vapors may travel along the ground or be moved by ventilation and ignited by many sources such as pilot lights, sparks, electric motors, static discharge, or other ignition sources at locations distant from material handling. Flashback can occur along vapor trail.

Hazardous Decomposition Products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Special Protective Equipment and Precautions for Firefighters

Keep people away. Isolate fire and deny unnecessary entry. Do not use direct water stream. May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Fire Fighting Measures

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

NFPA Ratings: Health: 2 Fire: 2 Instability: 0 Special Hazards: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe



***** Section 6 - ACCIDENTAL RELEASE MEASURES*****

Personal Precautions, Protective Equipment and Emergency Procedures

Isolate and evacuate area. Shut off source if safe to do so. All contaminated surfaces may be slippery. Keep upwind of spill. Ventilate area of leak or spill. Use appropriate safety equipment.

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Spills or discharge to natural waterways is likely to kill aquatic organisms.

Methods and Materials for Containment

Avoid release to the environment. Keep runoff from getting into sewers and waterways

Methods and Materials for Containment and Cleaning Up

Contain spilled material if possible. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Wash hard surfaces with safety solvent or detergent to remove remaining oil film.

***** Section 7 - HANDLING AND STORAGE*****

Precautions for Safe Handling

Do not get in eyes. Do not get on skin or clothing. Avoid prolonged or repeated contact with skin. Avoid breathing vapor. Do not swallow. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Product shipped/handled hot can cause thermal burns. Use appropriate grounding and bonding practices.

Static accumulating flammable liquid. Bonding and grounding may be insufficient to eliminate the hazard from static electricity. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Vapors may travel along the ground or be moved by ventilation. Flashback may occur along vapor trails. No smoking. Use only non-sparking tools. Avoid breathing fumes, gas, or vapors. Use only with adequate ventilation. Avoid repeated and prolonged skin contact.

Conditions for Safe Storage, including any Incompatibilities

Store in closed containers in a cool, dry, locked, well-ventilated area between 32 F and 120 F. Keep away from oxidizing agents, excessive heat, and ignition sources. Store away from direct sunlight and any sources of heat. Do not freeze. Do not store this material in open or unlabeled containers. See product label for more information.

Incompatibilities

Avoid contact with oxidizing agents, excessive heat, and ignition sources.

***** Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION*****

Component Exposure Limits

Diesel Fuel (68476-34-6)

- ACGIH:** 100 mg/m³ TWA (inhalable fraction and vapor, as total hydrocarbons)
- Alberta:** 100 mg/m³ TWA (as total hydrocarbons)
- British Columbia:** 100 mg/m³ TWA (aerosol, inhalable, and vapor, as total hydrocarbons)
- Manitoba:** 100 mg/m³ TWA (inhalable fraction and vapor, as total hydrocarbons)
- Newfoundland and Labrador:** 100 mg/m³ TWA (inhalable fraction and vapor, as total hydrocarbons)

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Northwest Territories:	150 mg/m ³ TWA (inhalable fraction and vapor, listed under diesel fuel)
Nova Scotia:	100 mg/m ³ TWA (inhalable fraction and vapor, as total hydrocarbons)
Nunavut:	150 mg/m ³ TWA (inhalable fraction and vapor, listed under diesel fuel) 100 mg/m ³ TWA (vapor, as total hydrocarbons, listed under diesel fuel)
Ontario:	100 mg/m ³ TWA (inhalable fraction and vapor, as total hydrocarbons, listed under diesel fuel)
Prince Edward Island:	100 mg/m ³ TWA (inhalable fraction and vapor, as total hydrocarbons)
Saskatchewan:	150 mg/m ³ STEL (vapor, as total hydrocarbons, listed under diesel fuel) 100 mg/m ³ TWA (vapor, as total hydrocarbons, listed under diesel fuel)

Paraffin Waxes and Hydrocarbon Waxes (8002-74-2)

ACGIH:	2 mg/m ³ TWA (fume)
NIOSH:	2 mg/m ³ TWA (fume)
Alberta:	2 mg/m ³ TWA (fume)
British Columbia:	2 mg/m ³ TWA (fume)
Manitoba:	2 mg/m ³ TWA (fume)
Newfoundland and Labrador:	2 mg/m ³ TWA (fume)
Northwest Territories:	2 mg/m ³ TWA (fume)
Nova Scotia:	2 mg/m ³ TWA (fume)
Nunavut:	2 mg/m ³ TWA (fume) 4 mg/m ³ STEL (fume)
Ontario:	2 mg/m ³ TWA (fume)
Prince Edward Island:	2 mg/m ³ TWA (fume)
Saskatchewan:	2 mg/m ³ TWA (fume) 4 mg/m ³ STEL (fume)
Yukon:	2 mg/m ³ TWA (fume) 6 mg/m ³ STEL (fume)

Appropriate Engineering Controls

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment. Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Use chemical goggles. When handling hot material: Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes.

Skin Protection

Use gloves chemically resistant to this material. Use gloves with insulation for thermal protection, when needed. Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. When handling hot material, protect skin from thermal burns. Selection of specific items will depend on the operation.

Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of large quantities of dust or prolonged exposure is possible, appropriate approved NIOSH respiratory protection must be provided. A NIOSH certified air purifying respirator with a Type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Respirators should be selected by and used under the direction of a trained health and safety professional following the requirements found in OSHA's respirator standard (29 CFR 1901.134) and ANSI's standard for respiratory protection (Z88.2-1992), applicable U.S. regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. A written respiratory protection program, including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage, must be implemented.

PPE Pictograms:



*** Section 9 - PHYSICAL AND CHEMICAL PROPERTIES***

Appearance:	Golden Amber to Red	Odor:	Mild petroleum
Physical State:	Liquid	Odor Threshold:	Not Available
Vapor Pressure:	< 2 mmHg at 72 °C	pH:	Not Available
Vapor Density:	>1	Specific Gravity:	0.8626
Boiling Point / Boiling Range:	>260 °C at 760 mmHg / Not available	Evaporation Rate:	Not Available
Melting Point / Freezing Point:	-9 °C / Not available	Relative Density:	Not Available
Solubility (H₂O):	Not soluble	Auto-ignition Temperature:	Not available
Flash Point:	>60 °C (>141°F)	Decomposition Temperature:	Not available
Upper Flammable Limit (UFL):	Not available	Lower Flammable Limit (LFL):	Not available
Viscosity:	Not available	Partition Coefficient (n-octanol / water):	Not available
Flammability (solid, gas):	Not applicable		

*** Section 10 - STABILITY AND REACTIVITY***

Chemical Stability

This is a stable material under normal conditions of temperature and pressure.

Possibility of Hazardous Reactions

Does not occur.

Conditions to Avoid

Exposure to elevated temperatures (>150 °C) can cause product to decompose.

Incompatible Materials

Avoid contact with oxidizing agents and excessive heat.

Hazardous Decomposition Products

Combustion can yield carbon, nitrogen oxides, carbon dioxide and carbon monoxide along with thick smoke.

*** Section 11 - TOXICOLOGICAL INFORMATION ***

Product Toxicity

The toxicity of the mixture has not been tested.

Component Analysis - LD50/LC50

Diesel Fuel (68476-34-6)

Dermal LD50 Rabbit: >4,300 mg/kg
Inhalation LC50 Rat: 4.1 mg/m³ 4 hr
Oral LD50 Rat: 7,500 mg/kg

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Acute Oral LD50 Rat; 1,636 mg/kg; Acute Dermal LD50 Rabbit; >652 mg/kg; Acute Inhalation LC50 Rat 4 hr (male and female): 0.26 mg/L 6 hr (Dust/Mist)

Paraffin Waxes and Hydrocarbon Waxes (8002-74-2)

Acute Dermal, LC50 Rabbit > 5,000 mg/kg; Acute Oral, LD50 Rat > 5,000 mg/kg; Skin Corrosion/Irritation (Rabbit) – Not irritating; Eye Damage/Irritation (Rabbit) – Not Irritating; Respiratory or Skin Sensitization (Guinea Pig) – Not sensitizing.

Microcrystalline Wax (8002-74-2)

Acute Dermal, LC50 Rabbit > 3,600 mg/kg.

Information on Likely Routes of Exposure

Inhalation

Prolonged excessive exposure may cause adverse effects. Excessive exposure may cause severe irritation to upper respiratory tract (nose and throat) and lungs.

Ingestion

Aspiration into the lungs may occur during vomiting, causing lung damage or even death due to chemical pneumonia.

Skin Contact

May cause an allergic skin reaction. Material may be handled at elevated temperatures; contact with heated material may cause thermal burns.

Eye Contact

May cause irritation.

Immediate Effects

May cause an allergic skin reaction and eye irritation.

Delayed Effects

Repeated or prolonged skin contact may result in dermatitis or dermal sensitization. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

Medical Conditions Aggravated by Exposure

No data Available.

Irritation/Corrosivity Data

Skin irritation, eye irritation

Respiratory Sensitization

No data available.

Dermal Sensitization

May cause an allergic skin reaction.

Germ Cell Mutagenicity

No data available.

Carcinogenicity

Diesel Fuel (68476-34-6)

ACGIH – A3 - Confirmed animal carcinogen with unknown relevance to humans.
IARC – Group 2B Possible. Monograph 45 [1989].

Naphthalene (91-20-3)

IARC – Group 2B Possible. Monograph 82 [2002].

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

No information available for the product.

Diesel Fuel (68476-34-6)

Respiratory system. Central nervous system

Specific Target Organ Toxicity - Repeated Exposure

Diesel Fuel (68476-34-6)

May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure.

Aspiration Hazard

Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

*** Section 12 - ECOLOGICAL INFORMATION***

Ecotoxicity

This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Component Analysis - Aquatic Toxicity**Diesel Fuel (68476-34-6)**

- Fish:** Acute LL50 96 hrs; 65 mg/L
Invertebrate: Daphnia, Acute, NOLER 21 Days; 0.2 mg/L
Daphnia, Chronic, NOLER 21 days; 0.2 mg/L
Algae: NOLER 72 hrs; 10 mg/L

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

- Fish:** Oncorhynchus mykiss (rainbow trout) LC50 96 hr; 0.0027 mg/L [flow-through];
Lepomis macrochirus (bluegill sunfish) LC50 96 hr; 0.014 mg/L [flow-through];
Invertebrate: Daphnia magna (Water Flea) EC50 48 hr; 0.0057 mg/L
Algae: Pseudokirchneriella subcapitata (green algae) ErC50, 72 hr; 0.048 mg/L
[static]; Pseudokirchneriella subcapitata (green algae) ErC50, 72 hr; 0.077
mg/L [static];
Bacteria: Activated sludge, Respiration rates EC50; 5.70 mg/L.

Paraffin Waxes and Hydrocarbon Waxes (8002-74-2)

- Fish:** Pimephales promelas (fathead minnow) LL50 96 hr; >100 mg/L
Invertebrate: Daphnia magna (Water Flea) LL50; >10,000 mg/L
Algae: Pseudokirchneriella subcapitata (green algae) ErC50, 72 hr; ≥100 mg/L

Persistence and Degradability**Diesel Fuel (68476-34-6)**

Expected to be inherently biodegradable.

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Biodegradability: Readily biodegradable
Method: Simulation study

Stability in Water (1/2-life) - DT50, 1.2 d

Bioaccumulation Potential**Diesel Fuel (68476-34-6)**

Has the potential to bioaccumulate.

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Partition coefficient: n-octanol/water(log Pow): 2.8 OECD Test Guideline 107 or Equivalent
Bioconcentration factor (BCF): < 13 Fish.

Mobility in Soil**Diesel Fuel (68476-34-6)**

May partition to air, soil, and water

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one (64359-81-5)

Expected to be relatively immobile in soil (Koc > 5000).
Partition coefficient (Koc): 6610

***** Section 13 - DISPOSAL CONSIDERATIONS*******Disposal Methods**

Wastes must be tested using methods described in 40 CFR 261 to determine if it meets applicable definition of hazardous waste. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Disposal of Contaminated Packaging**Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations

***** Section 14 - TRANSPORT INFORMATION*******US DOT Information**

Shipping Name: Flammable Liquids, Corrosive n.o.s. (Diesel Fuel, 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-on)

UN/NA #: UN2924

Hazard Class: 3, 8 **Packing Group:** III

Emergency Response Guide #: 132

**Canada Transportation of Dangerous Goods Information**

Shipping Name: Flammable Liquids, Corrosive n.o.s. (Diesel Fuel, 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-on)

UN/NA #: UN2924

Hazard Class: 3, 8 **Packing Group:** III

**IMDG**

Shipping Name: Flammable Liquids, Corrosive n.o.s. (Diesel Fuel, 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-on)

UN/NA #: UN2924

Hazard Class: 3, 8 **Packing Group:** III

EMS Guide #: F-E, S-C

Marine pollutant: Diesel Fuel, 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one

***** Section 15 - REGULATORY INFORMATION*******U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4). This product may be subject to reporting under SARA Section 311/312 (40 CFR 370.21) if storage threshold is exceeded.

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Naphthalene (91-20-3)

SARA 313: 1 % de minimis concentration.

SARA 311/312: See Section 2 for Physical and Health Hazards to be listed on Tier II form EPA 8700-30, or equivalent.

Federal Insecticide, Fungicide, and Rodenticide Act

This material does not contain chemicals present on either the Listing of Pesticide Chemicals (40 CFR 180) or Pesticides Classified for Restricted Use as listed by FIFRA,

Component Marine Pollutants

This material does not contain chemicals required by US DOT to be identified as marine pollutants.

U.S. State Regulations

State Regulations

Other state regulations may apply. Check individual state requirements.

Component Analysis – State

Component	CAS	CA	MA	MN	NJ	PA	RI
Diesel Fuel	68476-34-6	Yes	Yes	No	No	Yes	No
Naphthalene	91-20-3	Yes	Yes	No	Yes	Yes	No
4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	64359-81-5	No	No	No	No	No	No
Paraffin Waxes and Hydrocarbon Waxes	8002-74-2	Yes	Yes	Yes	Yes	Yes	Yes
Microcrystalline wax	8002-74-2	No	No	No	No	No	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a component with a chemical known to the State of California to cause cancer. (naphthalene; ethylbenzene; cumene)

WARNING! This product contains a component with chemical known to the State of California to cause birth defects or other reproductive harm. (toluene)

WARNING! This product contains a component with chemical known to the State of California to cause cancer and birth defects or other reproductive harm. (Benzene)

Component Analysis - WHMIS IDL

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List (IDL). The List is composed of chemicals which must be identified on MSDSs if they are included in products which fall under WHMIS criteria specified in the Controlled Products Regulations and present above the threshold limits listed on the IDL. This product does not contain components listed on the IDL.

WHMIS Classification :

B3 – Flammable/Combustible Liquids

D2A – Very Toxic Material at ≥0.1% - Carcinogenicity - IRAC Group 2B, ACGIH – Group A3

D2B – Skin Sensitizer at ≥1% – Allergic skin reaction

Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AU	MX	JP	PH	KR	CH
Diesel Fuel	68476-34-6	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Naphthalene	91-20-3	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one	64359-81-5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Paraffin Waxes and Hydrocarbon Waxes	8002-74-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Microcrystalline wax	8002-74-2	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

* * * Section 16 - OTHER INFORMATION * * *

Summary of Changes

New SDS: 10/01/2022 v.1.0

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; **ASTM** – American Society for Testing and Materials (ASTM International); **AU** - Australia; **BOD** - Biochemical Oxygen Demand; **C** - Celsius; **CA** - Canada; **CAS** - Chemical Abstracts Service; **CERCLA** - Comprehensive Environmental Response, Compensation, and Liability Act; **CFR** - Code of Federal Regulations; **CN** - China; **CNS** – Central Nervous System; **CPR** - Controlled Products Regulations; **cSt** – Centistokes; **DOT** - Department of Transportation; **DSL** - Domestic Substances List; **EbC50** – Acute Endpoint - the concentration of a test substance which results in a 50 percent reduction in biomass growth; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **ELINCS** - European List of Notified Chemical Substances; **EPA** - Environmental Protection Agency; **ERG** - Emergency Response Guide; **ErC50** – EC50 (lethal concentration) in terms of reduction of growth weight; **EU** -European Union; **F** - Fahrenheit; **g/L**- grams per liter; **HEPA** - High Efficiency Particulate Air; **HMIS** - Hazardous Material Information System; **HPV** – High Production Volume Chemical (EU); **IARC** - International Agency for Research on Cancer; **IATA** - International Air Transport Association; **ICL** – In Commerce List (Canada); **IDL** - Ingredient Disclosure List; **IDLH** - Immediately Dangerous to Life and Health; **IMDG** – International Maritime Dangerous Goods; **JP** - Japan; **KR** - Korea; **LL** – Lethal Loading; **LLNA** – Local Lymph Node Assay; **LEL** - Lower Explosive Limit; **LMPE-CT** – Short term exposure limit; **LMPE-PPT** - Límite Máximo Permissible de Exposición Promedio Ponderado en el Tiempo (Mexico TWA equivalent); **MITI** - Japan Ministry of International Trade and Industry; **mg/Kg** - milligrams per Kilogram; **mg/L** - milligrams per Liter; **mg/m³** - milligrams per Cubic Meter; **MSHA** - Mine Safety and Health Administration; **MX** – Mexico; **NA** - Not Applicable or Not Available; **NFPA** - National Fire Protection Association; **NIOSH** - National Institute for Occupational Safety and Health; **NJTSR** - New Jersey Trade Secret Registry; **NOELR** – No observed effect loading rate; **NTP** - National Toxicology Program; **NZ** - New Zealand; **OSHA** - Occupational Safety and Health Administration; **PH** - Philippines; **RCRA** - Resource Conservation & Recovery Act; **SARA** - Superfund Amendments and Reauthorization Act; **STEL** - Short Term Exposure Limit; **STEV** – Short-term Exposure Values; **TDG** - Transport Dangerous Goods; **TSCA** - Toxic Substances Control Act; **TWA** - Time Weighted Average; **TWAEV** – Time Weighted Average Exposure Values; **UEL** - Upper Explosive Limit; **US** - United States; **VLE-CT** – Short term exposure limit value; **VLE-PPT** – Time weighted average limit value; **WHMIS** - Workplace Hazardous Materials Information System.

Other Information

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product

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purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

End of Sheet VIA-301