JEFFERY W. KITCHENS
ACTING DIRECTOR

KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov
1400 Coliseum Blvd. 36110-2400 ▪ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ▪ FAX (334) 271-7950

JUN 1 0 2025

MR. RUSSELL LAMONT
VICE PRESIDENT, SALES AND COMMERCIAL
DYNO NOBEL, INC.
6440 S MILLROCK DR
STE 150
SALT LAKE CTY, UT 84121

RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0083810

Dear Mr. Lamont:

Transmitted herein is a draft of the referenced permit.

We would appreciate your comments on the permit within **30 days** of the date of this letter. Please direct any comments of a technical or administrative nature to the undersigned.

By copy of this letter and the draft permit, we are also requesting comments within the same time frame from EPA.

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

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

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

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

If you have questions regarding this permit or monitoring requirements, please contact Clint Dear by e-mail at **clint.dear@adem.alabama.gov** or by phone at **(334) 271-7851.**

Sincerely,

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

Enclosure: Draft Permit

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

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

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

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

Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: DYNO NOBEL INC

FACILITY LOCATION: DYNO NOBEL INC - PARRISH OPERATIONS
8425 HIGHWAY 269
PARRISH, ALABAMA 35580
WALKER COUNTY

PERMIT NUMBER: AL0083810

RECEIVING WATERS: 001 - UNNAMED TRIBUTARY TO BRYANTS CREEK
002 - UNNAMED TRIBUTARY TO BRYANTS CREEK
003 - UNNAMED TRIBUTARY TO BRYANTS CREEK

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

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

DRAFT

Alabama Department of Environmental Management

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

DSN001Q: Uncontaminated railcar condensate and industrial stormwater associated with blasting agents manufacturing. 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	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Quarterly	Grab	All Months
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/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
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	1244 Maximum Daily	ug/l	Quarterly	Grab	All Months
Naphthalene (34696) Effluent Gross Value	*****	*****	*****	*****	*****	620 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
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/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/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

DSN002Q: Uncontaminated railcar condensate, uncontaminated compressor condensate, incidental non-contact cooling water/cooling tower blowdown/ boiler blowdown, exterior vehicle wash water, and industrial stormwater associated with blasting agents manufacturing. 3/ 4/

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

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency[2]	Sample Type[1]	Seasonal
Temperature, Water Deg. Fahrenheit (00011) 5/ Effluent Gross Value	*****	*****	*****	*****	*****	90 Maximum Daily	deg F	Quarterly	Grab	All Months
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	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Quarterly	Grab	All Months
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/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
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	1244 Maximum Daily	ug/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.

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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.

5/ To be sampled during non-stormwater events.

DSN002Q (Continued): Uncontaminated railcar condensate, uncontaminated compressor condensate, incidental non-contact cooling water/cooling tower blowdown/ boiler blowdown, exterior vehicle wash water, and industrial stormwater associated with blasting agents manufacturing. 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
Naphthalene (34696) Effluent Gross Value	*****	*****	*****	*****	*****	620 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
Chlorine, Total Residual (50060) 5/ 6/ Effluent Gross Value	*****	*****	*****	*****	*****	0.019 Maximum Daily	mg/l	Quarterly	Grab	All Months
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/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/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

5/ To be sampled during non-stormwater events.

6/ A measurement of Total Residual Cholorine below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as NODI=B or *B on the discharge monitoring reports.

DSN003Q: Industrial stormwater associated with blasting agents manufacturing. 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	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Quarterly	Grab	All Months
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/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
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	1244 Maximum Daily	ug/l	Quarterly	Grab	All Months
Naphthalene (34696) Effluent Gross Value	*****	*****	*****	*****	*****	620 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
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/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.

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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.

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 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(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.

A. 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.

ADEM PERMIT RATIONALE

PREPARED DATE: April 21, 2025
PREPARED BY: Clint Dear

Permittee Name: Dyno Nobel Inc

Facility Name: Dyno Nobel Inc - Parrish Operations

Permit Number: AL0083810

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:

DSN	Description
001	Uncontaminated railcar condensate and industrial stormwater associated with blasting agents manufacturing.
002	Uncontaminated railcar condensate, uncontaminated compressor condensate, incidental non-contact cooling water/cooling tower blowdown/ boiler blowdown, exterior vehicle wash water, and industrial stormwater associated with blasting agents manufacturing.
003	Industrial stormwater associated with blasting agents manufacturing.

INDUSTRIAL CATEGORY: NON-CATEGORICAL

MAJOR: No

STREAM INFORMATION:

Receiving Stream:	UT to Bryants Creek
Classification:	Fish & Wildlife
River Basin:	Warrior River Basin
7Q10:	0 cfs
303(d) List:	No
Impairment:	N/A
TMDL:	No

DISCUSSION:

The facility manufactures blasting agents and distributes and stores commercial explosives. 40 CFR 457 provides Federal Guidelines for process wastewaters associated with the manufacture of explosives. The facility previously stated that the process wastewaters and rinse waters from the interior of vehicles are reused in the process (zero discharge). Boiler blowdown and stormwater discharges from the facility's current operations are not subject to the parameter limits under 40 CFR 457.

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 discharge to a Tier II water body. Therefore, anti-degradation requirements do not apply.

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.

DSN001Q: Uncontaminated railcar condensate and industrial stormwater associated with blasting agents manufacturing.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Quarterly	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Toluene (34010) Effluent Gross Value	*****	*****	*****	*****	*****	8723 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Benzene (34030) Effluent Gross Value	*****	*****	*****	*****	*****	15.5 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	1244 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Naphthalene (34696) Effluent Gross Value	*****	*****	*****	*****	*****	620 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Quarterly	Estimate	All Months	BPJ
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ

DSN002Q: Uncontaminated railcar condensate, uncontaminated compressor condensate, incidental non-contact cooling water/cooling tower blowdown/ boiler blowdown, exterior vehicle wash water, and industrial stormwater associated with blasting agents manufacturing.

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	Grab	All Months	WQBEL
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Quarterly	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Toluene (34010) Effluent Gross Value	*****	*****	*****	*****	*****	8723 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Benzene (34030) Effluent Gross Value	*****	*****	*****	*****	*****	15.5 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	1244 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Naphthalene (34696) Effluent Gross Value	*****	*****	*****	*****	*****	620 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Quarterly	Estimate	All Months	BPJ
Chlorine, Total Residual (50060) Effluent Gross Value	*****	*****	*****	*****	*****	0.019 Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ

DSN003Q: Industrial stormwater associated with blasting agents manufacturing.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Quarterly	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Toluene (34010) Effluent Gross Value	*****	*****	*****	*****	*****	8723 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Benzene (34030) Effluent Gross Value	*****	*****	*****	*****	*****	15.5 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	1244 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Naphthalene (34696) Effluent Gross Value	*****	*****	*****	*****	*****	620 Maximum Daily	ug/l	Quarterly	Grab	All Months	WQBEL
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Quarterly	Estimate	All Months	BPJ
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ

*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

DSN001: Uncontaminated railcar condensate and industrial stormwater associated with blasting agents manufacturing.

Best Professional Judgment (BPJ)

The parameters of concern for this facility are based on the parameters of concern listed in the applicant's EPA Form 2E and Form 2F. 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.

Oil & Grease

The daily maximum limit for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable through the use of proper BMPs.

Water Quality Based Effluent Limits (WQBEL)

Benzene, Ethylbenzene, Toluene and Xylene

Materials containing these contaminants are stored in this area. Based on review of facilities with similar types of operations, and in comparison to the Department's General Permits that regulate the discharge from petroleum containment areas (i.e. ALG340000), water quality based limits of Benzene, Ethylbenzene, and Toluene will be proposed for these parameters. Monitoring for the fourth BETX component, Xylene will also be required as report only, since a water quality limit for Xylene has not been promulgated at this time.

Benzene

Due to a number error in the previous permit version, the daily maximum concentration for Benzene has been updated from 15.4 ug/l to 15.5 ug/l.

Naphthalene

Materials containing these contaminants are stored in this area. Based on review of facilities with similar types of operations, and in comparison to General Permits which regulate the discharge from petroleum containment areas (i.e. ALG340000), a water quality based limit will be proposed for Naphthalene.

Federal Effluent Guideline Limitations (EGL) for DSN001:

No wastewater is generated that is regulated under effluent guidelines established under the 40 CFR 457.

DSN002: Uncontaminated railcar condensate, uncontaminated compressor condensate, incidental non-contact cooling water/cooling tower blowdown/ boiler blowdown, exterior vehicle wash water, and industrial stormwater associated with blasting agents manufacturing.

Best Professional Judgment (BPJ)

The parameters of concern for this facility are based on the parameters of concern listed in the applicant's EPA Form 2E and Form 2F. 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.

Oil & Grease

The daily maximum limit for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable through the use of proper BMPs.

Water Quality Based Effluent Limits (WQBEL)

Temperature

The temperature limit of 90°F is proposed due to comparing the effluent flow with the 7Q10 of the receiving stream. The ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(5)(e)3(i)-Specific Water Quality Criteria for Fish and Wildlife classified streams sets a limit of 90°F in the stream. The permit will include a footnote that temperature monitoring shall occur during non-stormwater events.

Benzene, Ethylbenzene, Toluene and Xylene

Materials containing these contaminants are stored in this area. Based on review of facilities with similar types of operations, and in comparison to the Department's General Permits that regulate the discharge from petroleum containment areas (i.e. ALG340000), water quality based limits of Benzene, Ethylbenzene, and Toluene will be proposed for these parameters. Monitoring for the fourth BETX component, Xylene will also be required as report only, since a water quality limit for Xylene has not been promulgated at this time.

Benzene

Due to a number error in the previous permit version, the daily maximum concentration for Benzene has been updated from 15.4 ug/l to 15.5 ug/l.

Naphthalene

Materials containing these contaminants are stored in this area. Based on review of facilities with similar types of operations, and in comparison to General Permits which regulate the discharge from petroleum containment areas (i.e. ALG340000), a water quality based limit will be proposed for Naphthalene.

Chlorine, Total Residual

The EPA recommended criteria for TRC is 0.019 mg/l. Because of the activities at the site, this limitation is proposed in the permit based on BPJ.

In accordance with a letter dated August 11, 1998, from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a Total Residual Chlorine measurement below 0.05 mg/L shall be considered below detection for compliance purposes. A footnote will be included on the relevant limits pages to clarify this point.

The permit will include a footnote that Total Residual Chlorine monitoring shall be performed during non-stormwater events.

Federal Effluent Guideline Limitations (EGL) for DSN002:

No wastewater is generated that is regulated under effluent guidelines established under the 40 CFR 457.

DSN003: Industrial stormwater associated with blasting agents manufacturing.

Best Professional Judgment (BPJ)

The parameters of concern for this facility are based on the parameters of concern listed in the applicant's EPA Forms 2E and 2F. 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.

Oil & Grease

The daily maximum limit for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable through the use of proper BMPs.

Water Quality Based Effluent Limits (WQBEL)

Benzene, Ethylbenzene, Toluene, and Xylene

Materials containing these contaminants are stored in this area. Based on review of facilities with similar types of operations, and in comparison to the Department's General Permits that regulate the discharge from petroleum containment areas (i.e. ALG340000), water quality based limits of Benzene, Ethylbenzene, and Toluene will be proposed for these parameters. Monitoring for the fourth BETX component, Xylene will also be required as report only, since a water quality limit for Xylene has not been promulgated at this time.

Naphthalene

Materials containing these contaminants are stored in this area. Based on review of facilities with similar types of operations, and in comparison to General Permits which regulate the discharge from petroleum containment areas (i.e. ALG340000), a water quality based limit will be proposed for Naphthalene.

Federal Effluent Guideline Limitations (EGL) for DSN003:

No wastewater is generated that is regulated under effluent guidelines established under the 40 CFR 457.

Best Management Practices

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

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

version 2.10

(Submission #: HQ8-JXYM-98V6K, version 1)

Details

Submission ID HQ8-JXYM-98V6K

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 mod's, 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) 271-7799!

Processing Information

Purpose of Application
Reissuance of Permit Due to Approaching Expiration

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

Action Type
Reissuance

If applicable, briefly describe any planned changes at the facility that are included in this reissuance application:
None

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):
AL00083810

Is this facility/site only applying for permit coverage for discharges from stormwater?
No

Is a new stormwater outfall being added?
No

Permit Information

Permit Number
AL0083810

Current Permittee Name
Dyno Nobel Inc

Permittee

Permittee Name
Dyno Nobel Inc

Mailing Address
8425 Highway 269
Parrish, AL 35580

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
Russell	Lamont

Title
Vice President, Sales and Commercial

Organization Name
Dyno Nobel, Inc.

Phone Type	Number	Extension
Business	629-241-1524	

Email
Russell.lamont@am.dynonobel.com

Mailing Address
6440 S MILLROCK DR
STE 150
SALT LAKE CTY, UT 84121

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?
Yes

Pursuant to ADEM Admin. Code r. 335-6-6-.09(2), a person may ONLY be delegated signatory authority for reports if that person has responsibility for the overall operation of the regulated facility or regulated activity. Once such delegation is made, that person is considered a duly authorized representative (DAR).

Existing Permit Contacts

Affiliation Type	Contact Information	Remove?
Environmental Contact,DMR Contact	Chris Stek	Remove
DMR Contact,Authorized Rep	Colby Geil	Remove
Facility Contact	Doug Pierson, Dyno Nobel Inc	Remove
Permittee	Dyno Nobel Inc	*NONE PROVIDED*
Responsible Official,Notification Recipient	Ed Glass, Dyno Nobel Inc	Remove
Facility Contact,Responsible Official	Jarrod Smith, Dyno Nobel, Inc	*NONE PROVIDED*

Duly Authorized Representative (DAR)

Duly Authorized Representative - Delegation of Signatory Authority by Responsible Official

If the permittee has not already prepared a signed and dated delegation form/letter, an optional form can be downloaded from the link below. All information should be completed along with the responsible official's signature and date signed. That signed form can be uploaded in the attachment section below titled "DAR Documentation".
Optional Delegation of Signatory Authority Form

Delegation Document for Duly Authorized Representation (DAR)
Delegation of Signatory- Signed.pdf - 12/20/2024 09:58 AM
Comment
NONE PROVIDED

Pursuant to ADEM Admin. Code r. 335-6-6-.09(2), a person may ONLY be delegated signatory authority for reports if that person has responsibility for the overall operation of the regulated facility or activity. Once such delegation is made, that person is considered a duly authorized representative (DAR).

Authorized Rep

Prefix
Mr.

First Name	Last Name
Tyler	Kelley

Title
Environmental Coordinator

Organization Name
Dyno Nobel, Inc.

Phone Type	Number	Extension
Mobile	270-803-9828	

Email
tyler.kelley@am.dynonobel.com

Mailing Address

400 BICKFORD RD

GRAHAM, KY 42344

United States

Facility/Site Information

Facility/Site Name
Dyno Nobel Inc - Parrish Operations

Organization/Ownership Type
Corporation

Facility/Site Address or Location Description

8425 Highway 269

Parrish, AL 35580

Facility/Site County
Walker

Detailed Directions to the Facility/Site
From Jasper, Alabama, head south on AL-269 south 8.6 miles. Site on left.

Facility Map

Facility Map.pdf - 12/18/2024 06:32 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
33.71269400000000,-87.26504199999999

8425 Highway 269, Parrish, AL

SIC Code(s) [Please enter Primary SIC Code first followed by any additional applicable SIC Codes]
2892-Explosives

NAICS Code(s) [Please enter Primary NAICS Code first followed by any additional applicable NAICS Codes]
325920-Explosives Manufacturing

Facility/Site Contact

Prefix
Mr.

First Name **Last Name**
Tyler Kelley

Title
Environmental Coordinator

Organization Name
Dyno Nobel, Inc.

Phone Type **Number** **Extension**
Mobile 270-803-9828

Email
tyler.kelley@am.dynonobel.com

Address
400 BICKFORD RD
GRAHAM, KY 42344

DMR Contact(s) (1 of 1)

DMR Contact

Prefix
Mr.

First Name **Last Name**
Tyler Kelley

Title
Environmental Coordinator

Phone Type **Number** **Extension**
Mobile 2708039828

Email
tyler.kelley@am.dynonobel.com

Address
400 BICKFORD RD
GRAHAM, KY 42344

Applicant Business Entity Information

Address of Incorporation
6440 S. Millrock Drive, Suite 150, Salt Lake City, UT 84121

Agent Designated by the Corporation for Purposes of Service

Name	Address
N/A	N/A

Please provide all corporate officers

Name	Title	Address
Russell Lamont	VP Sales and Commercial	6440 S. Millrock, Suite 150, Salt Lake City, UT 84121
Kevin McNeil	VP HSE & Operations	6440 S. Millrock, Suite 150, Salt Lake City, UT 84121

Does the applicant applying for coverage have a Parent Corporation?
Yes

Parent Corporation of Applicant

Name	Address
Incitec Pivot Limited	Level 8, 28 Freshwater Place, Southbank, Victoria, Australia 3006

Does the applicant applying for coverage have Subsidiary Corporations?
No

Enforcement History

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

Business Activity

A facility with processes inclusive in the business areas shown below may be covered by Environmental Protection Agency's (EPA) categorical effluent guideline standards. These facilities are termed "categorical users". If unsure, please call the Industrial Section at (334) 271-7943 to discuss or use the link below to contact the Permit Engineer for the county the facility is/will be located in.
Industrial Section Assignment Map

If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous wastes), please check the category of business activity:
Explosives Manufacturing

Give a brief description of all operations at this facility including primary products or services:
Wastewater from blasting agent manufacturing at this facility is not discharged to waters of the State. Any process wastewater and water collected in production containment areas from the blasting agent manufacturing process and washing of vehicle interiors is collected and recycled back into the process. Only non-process wastewater from ancillary operations is discharged.

Water Supply

Water Sources (check all that apply):
Municipal Water Utility

Please specify the City of the Municipal Water Utility:
Parrish

Name of Utility	Million Gallons per Day (MGD)
Parrish Water Works	0.0026

Cooling Water Intake Structure Information

Does the provider of your source water operate a surface water intake?
No

Is the provider a public water system (defined as a system which provides water to the public for human consumption or which provides only treated water, not raw water)?
Yes

Outfalls (1 of 3)

001

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
001

Receiving Water
Bryants Creek

Does the discharge enter the named receiving water via an unnamed tributary?
Unnamed Tributary

Indicate if either of the following characteristics apply to this discharge:
Intermittent Discharge

Estimated Average Daily Flow (MGD)
0.000925

Monitoring/Sampling Point Location
33.71208300000000, -87.25903300000000

Outfalls (2 of 3)

002

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
002

Receiving Water
Bryants Creek

Does the discharge enter the named receiving water via an unnamed tributary?
Unnamed Tributary

Indicate if either of the following characteristics apply to this discharge:
Intermittent Discharge

Estimated Average Daily Flow (MGD)
0.0101

Monitoring/Sampling Point Location
33.71149400000000, -87.25960600000001

Outfalls (3 of 3)

003

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
003

Receiving Water
Bryants Creek

Does the discharge enter the named receiving water via an unnamed tributary?
Unnamed Tributary

Indicate if either of the following characteristics apply to this discharge:
Intermittent Discharge

Estimated Average Daily Flow (MGD)
0.012625

Monitoring/Sampling Point Location
33.71143900000000, -87.26153100000001

Process Flow Schematic with Wastewater Treatment(s), If Applicable

For an example of a process flow diagram, please use the link below.
Figure 1: Example of Process Flow Schematic

Process Flow Schematic
FlowDiagram Final.pdf - 12/30/2024 10:22 AM
Comment
NONE PROVIDED

Anti-Degradation Evaluation

Is this a new or increased discharge that began after April 3, 1991?
No

Additional Information

Do you share an outfall with another facility?
No

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

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

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

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

Please attach the process schematic with sampling equipment locations.
Sampling Equipment Locations.pdf - 12/18/2024 06:47 AM
Comment
NONE PROVIDED

Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics (Consider production processes as well as air or water pollution treatment processes that may affect the discharge.)?
Yes

Briefly describe these changes and their anticipated effects on the wastewater volume and characteristics:
Anticipating to receive ANSOL by rail in 2025. Will concrete pave the area and install drains and catch basins to reroute the water to discharge to Outfall 001

Do you use biocides, corrosion inhibitors, or chemical additives in your cooling or blowdown water?
Yes

The applicant must provide a list of the following information for each biocide or chemical:

(1) Name and general composition of biocide or chemical (if composition is not provided on MSDS sheet)
(2) 48-hour or 96-hour LC50 data for organisms representative of the biota of the waterway into which the discharge will ultimately

reach. For freshwater, the fathead minnow (Pimephales promelas) and cladoceran (Ceriodaphnia dubia) are the test organisms. For salt water, the mysid shrimp and the sheepshead minnow or inland silverside are the test organisms. Other acceptable aquatic organisms may be allowed by the Department if sufficient information is provided. If the MSDS sheet does not provide data for the organisms specified above, the facility must provide the data unless the Department grants approval for an alternate organism.
(3) Quantities to be used
(4) Frequencies of use
(5) Maximum proposed discharge concentrations
(6) EPA registration of number, if applicable and is not provided on the MSDS sheet.

List of Biocides

Please list biocides below:
MIT 1022
SWE-5041

Biocide/Corrosion Inhibitor Summary Sheet

Boiler Treatment Summary.pdf - 12/18/2024 06:49 AM
Comment
NONE PROVIDED

Safety Data Sheets (SDS)

SDS Sheets.pdf - 12/18/2024 06:49 AM
Comment
NONE PROVIDED

Treatment

Is any form of wastewater treatment (see list below) practiced at this facility?
Yes

Treatment devices or processes used or proposed for treating wastewater or sludge (check as many as appropriate).
Grease or oil separation

Grease or oil separation type:
Multi-chamber concrete pit

Is any form of wastewater treatment (or changes to an existing wastewater treatment) planned for this facility within the next three years?
No

Facility Operational Characteristics

Indicate whether the facility discharge is:
Continuous through the year

Comments:
NONE PROVIDED

Non-Discharged Wastes

Are any waste liquids or sludges generated and not disposed of in the sanitary sewer system?
No

Does any outside firm remove any of the above checked wastes?
No

EPA Application Forms

All Applicants must submit certain EPA permit application forms. More than one application form may be required.

Form 1 - General Information Form required for all applications

Form 2C - Should be submitted for facilities with existing discharge(s) of process wastewater.

Form 2D - Should be submitted for facilities that have not yet commenced discharge(s) of process wastewater.

Form 2E - Should be submitted for facilities who discharge non-process wastewater, such as non-contact cooling water or boiler blowdown.

Form 2F - Should be submitted for all discharges of storm water associated with an industrial activity.
The EPA application forms are found on the Department's website here.

EPA Form 1

EPA Form 1.pdf - 12/20/2024 10:12 AM

Comment

NONE PROVIDED

Additional EPA Forms (EPA Form 2C, 2D, 2E and/or 2F)

Final EPA Form 2F.pdf - 12/20/2024 02:05 PM

Final EPA Form 2E.pdf - 12/23/2024 01:45 PM

Comment

NONE PROVIDED

Other attachments (as needed)

NONE PROVIDED

Comment

NONE PROVIDED

Additional Attachments

Please attach any additional information as needed.

Lab Report L1801709.pdf - 12/20/2024 10:01 AM

Comment

NONE PROVIDED

Application Preparer

Application Preparer

Prefix

NONE PROVIDED

First Name	Last Name
Brittanie	Gloyd

Title

Project Compliance Specialist

Organization Name

EHS Support, LLC

Phone Type	Number	Extension
Business	4128344068	

Email

brittanie.gloyd@ehs-support.com

Address

1435 SHELTON DR

NACOGDOCHES, TX 75965

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 Russell Lamont on 12/31/2024 at 9:17 AM

EPA Identification Number	NPDES Permit Number	Facility Name	OMB No. 2040-0004
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish	Expires 07/31/2026

Form 1 NPDES | EPA

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

GENERAL INFORMATION

SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(F) AND (F)(1))

Activities Requiring an NPDES Permit

1.1 Applicants *Not Required* to Submit Form 1

1.1.1 Is the facility a new or existing **publicly owned treatment works** or has your permitting authority directed you to submit Form 2A?

If yes, STOP. Do NOT complete Form 1. Complete Form 2A. If the facility is also a **treatment works treating domestic sewage**, you must also complete Form 2S.

☑ No

1.1.2 Is the facility a **sludge-only facility** (i.e., a facility that does not discharge wastewater to surface waters)?

If yes, STOP. Do NOT complete Form 1. Complete Form 2S. ☑ No

1.2 Applicants *Required* to Submit Form 1

1.2.1 Is the facility a **concentrated animal feeding operation** or a **concentrated aquatic animal production facility**?

☐ Yes → Complete Form 1 ***and*** Form 2B. ☑ No

1.2.2 Is the facility an **existing** manufacturing, commercial, mining, or silvicultural **facility** that **is currently discharging process wastewater**?

☐ Yes → Complete Form 1 ***and*** Form 2C. ☑ No

1.2.3 Is the facility a **new** manufacturing, commercial, mining, or silvicultural **facility** that has **not yet commenced to discharge**?

☐ Yes → Complete Form 1 ***and*** Form 2D. ☑ No

1.2.4 Is the facility a **new or existing** manufacturing, commercial, mining, or silvicultural **facility** that **discharges only nonprocess wastewater**?

☑ Yes → Complete Form 1 ***and*** Form 2E. ☐ No

1.2.5 Is the facility a **new or existing facility** whose discharge is composed entirely of **stormwater associated with industrial activity** or whose discharge is composed of **both stormwater and non-stormwater**?

☑ Yes → Complete Form 1 ***and*** Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). ☐ No

1.2.6 Is the facility a new or existing **treatment works treating domestic sewage** that discharges wastewater to surface waters?

☐ Yes → Complete Form 1, Form 2S, ***and*** any other applicable forms, as directed by your permitting authority. ☐ No

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

Name, Mailing Address, and Location

2.1 Facility Name

Dyno Nobel, Inc.

2.2 EPA Identification Number

ALR000024281

2.3 Facility Contact

Name (first and last)	Title	Phone number
Jarrod Smith	Area Manager Commercial Operations	(205) 471-0689

Email address

Jarrod.Smith@am.DynoNobel.com

Name, Mailing Address, and Location Continued

2.4 Facility Mailing Address

Street or P.O. box		
8425 Highway 269		
City or town	**State**	**ZIP code**
Parrish	Alabama	35580

2.5 Facility Location

Street, route number, or other specific identifier		
8425 Highway 269		
County name	**County code (if known)**	
Walker		
City or town	**State**	**ZIP code**
Parrish	Alabama	35580

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(F)(3))

SIC and NAICS Codes

3.1

SIC Code(s)	Description (optional)
2892	Explosives Manufacturing

3.2

NAICS Code(s)	Description (optional)
325920	Explosives Manufacturing

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(F)(4))

Operator Information

4.1 Name of Operator

Dyno Nobel, Inc.

4.2 Is the name you listed in Item 4.1 also the owner?

☑ Yes ☐ No

4.3 Operator Status

☐ Public—federal ☐ Public—state ☐ Other public (specify)_____

☑ Private ☐ Other (specify) _____

4.4 Phone Number of Operator

(888) 473-2675

Operator Information Continued

4.5 **Operator Address**

Street or P.O. Box: 8425 Highway 269

City or town	State	ZIP code
Parrish	Alabama	35580

Email address of operator: N/A

SECTION 5. INDIAN LAND (40 CFR 122.21(F)(5))

Indian Land

5.1 Is the facility located on Indian Land?

☐ Yes ☑ No

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

Existing Environmental Permits

6.1 **Existing Environmental Permits** (check all that apply and print or type the corresponding permit number for each)

☐ NPDES (discharges to surface water)	☑ RCRA (hazardous wastes) ALR000024281	☐ UIC (underground injection of fluids)
☐ PSD (air emissions)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☐ Other (specify)

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

Map

7.1 Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.)

☑ Yes ☐ CAFO—Not Applicable (See requirements in Form 2B.)

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

Nature of Business

8.1 Describe the nature of your business.

The facility conducts blasting agent manufacturing and distribution and storage of commercial explosives.

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

Cooling Water Intake Structures

9.1 Does your facility use cooling water?

☐ Yes ☑ No → SKIP to Item 10.1.

9.2 Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.)

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish	

SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

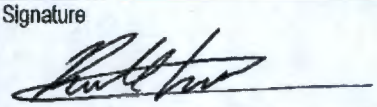
Checklist and Certification Statement

11.1 In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2
☑ Section 1: Activities Requiring an NPDES Permit	☐ w/ attachments
☑ Section 2: Name, Mailing Address, and Location	☐ w/ attachments
☑ Section 3: SIC Codes	☐ w/ attachments
☑ Section 4: Operator Information	☐ w/ attachments
☑ Section 5: Indian Land	☐ w/ attachments
☑ Section 6: Existing Environmental Permits	☐ w/ attachments
☑ Section 7: Map	☑ w/ topographic map ☐ w/ additional attachments
☑ Section 8: Nature of Business	☐ w/ attachments
☑ Section 9: Cooling Water Intake Structures	☐ w/ attachments
☑ Section 10: Variance Requests	☐ w/ attachments
☑ Section 11: Checklist and Certification Statement	☐ w/ attachments

11.2 **Certification Statement**

I 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)	Official title
Russell Lamont	Vice President, Sales and Commercial
Signature	**Date signed**
	12/19/24

EPA Identification Number	NPDES Permit Number	Facility Name
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish

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

FORM 2E NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH DISCHARGE ONLY NONPROCESS WASTEWATER

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(h)(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
001	Tributary to Bryants Creek	33° 42′ 43.50″ N	-87° 15′ 32.52″ W
002	Collection Pond then Tributary	33° 42′ 43.38″ N	-87° 15′ 34.58″ W
003	Tributary to Bryants Creek	33° 42′ 41.18″ N	-87° 15′ 41.51″ W

SECTION 2. DISCHARGE DATE (40 CFR 122.21(h)(2))

Discharge Date

2.1 Are you a new or existing discharger? (Check only one response.)

☐ New discharger ☒ Existing discharger ➔ SKIP to Section 3.

2.2 Specify your anticipated discharge date:

SECTION 3. WASTE TYPES (40 CFR 122.21(h)(3))

Waste Types

3.1 What types of wastes are currently being discharged if you are an existing discharger or will be discharged if you are a new discharger? (Check all that apply.)

☐ Sanitary wastes
☐ Restaurant or cafeteria waste
☒ Non-contact cooling water
☒ Other nonprocess wastewater (describe/explain directly below)

Boiler blowdown, uncontaminated railcar condensate, industrial stormwater associatiated with blasting agents manufacturing, uncontaminated compressor condensate, exterior vehicle wash water

3.2 Does the facility use cooling water additives?

☐ Yes ☒ No ➔ SKIP to Section 4.

3.3 List the cooling water additives used and describe their composition.

Cooling Water Additives (list)	Composition of Additives (if available to you)

SECTION 4. EFFLUENT CHARACTERISTICS (40 CFR 122.21(h)(4))

Effluent Characteristics

4.1 Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package?

☒ Yes ☐ No; a waiver has been requested from my NPDES permitting authority (attach waiver request and additional information) ➔ SKIP to Section 5.

4.2 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant OUTFALL 001	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units) Mass	Maximum Daily Discharge (specify units) Conc.	Average Daily Discharge (specify units) Mass	Average Daily Discharge (specify units) Conc.	Source (use codes per instructions)
Biochemical oxygen demand (BOD_5)	1		10.8 mg/l			
Total suspended solids (TSS)	1		Not Detected			
Oil and grease	1		Not Detected			
Ammonia (as N)	1		71.1 mg/l			
Discharge flow	1	1,018.22 gallons				
pH (report as range)	1	7.70				
Temperature (winter)	1	64.94 F				
Temperature (summer)	N/A	N/A				

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

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish	

Effluent Characteristics Continued

4.3 Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)?

☐ Yes ☒ 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	Conc.	
Fecal coliform						
E. coli						
Enterococci						

4.5 Is chlorine used (or will it be used)?

☒ Yes ☐ No ➔ SKIP to Item 4.7.

4.6 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant OUTFALL 001	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	1		0.775 mg/l			

4.7 Is non-contact cooling water discharged (or will it be discharged)?

☒ Yes ☐ No ➔ SKIP to Section 5.

4.8 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant OUTFALL 001	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		22.8 mg/l			
Total organic carbon (TOC)	1		10.1 mg/l			

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?

☐ Yes ➔ Complete this section. ☒ 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 systems are used for discharges at Outfall 001.

[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	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish	

FORM 2E NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH DISCHARGE ONLY NONPROCESS WASTEWATER

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003	Tributary to Bryants Creek	33° 42′ 41.18″ N	-87° 15′ 41.51″ W

SECTION 2. DISCHARGE DATE (40 CFR 122.21(h)(2))

Discharge Date

2.1 Are you a new or existing discharger? (Check only one response.)

☐ New discharger ☒ Existing discharger ➔ SKIP to Section 3.

2.2 Specify your anticipated discharge date:

SECTION 3. WASTE TYPES (40 CFR 122.21(h)(3))

Waste Types

3.1 What types of wastes are currently being discharged if you are an existing discharger or will be discharged if you are a new discharger? (Check all that apply.)

☐ Sanitary wastes
☐ Restaurant or cafeteria waste
☒ Non-contact cooling water
☒ Other nonprocess wastewater (describe/explain directly below)

Boiler blowdown, uncontaminated railcar condensate, industrial stormwater assocatiated with blasting agents manufacturing, uncontaminated compressor condensate, exterior vehicle wash water

3.2 Does the facility use cooling water additives?

☐ Yes ☒ No ➔ SKIP to Section 4.

3.3 List the cooling water additives used and describe their composition.

Cooling Water Additives (list)	Composition of Additives (if available to you)

SECTION 4. EFFLUENT CHARACTERISTICS (40 CFR 122.21(h)(4))

Effluent Characteristics

4.1 Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package?

☒ Yes ☐ No; a waiver has been requested from my NPDES permitting authority (attach waiver request and additional information) ➔ SKIP to Section 5.

4.2 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant OUTFALL 002	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units) Mass	Maximum Daily Discharge (specify units) Conc.	Average Daily Discharge (specify units) Mass	Average Daily Discharge (specify units) Conc.	Source (use codes per instructions)
Biochemical oxygen demand (BOD_5)	1		3.50 mg/l			
Total suspended solids (TSS)	1		63.6 mg/l			
Oil and grease	1		Not detected			
Ammonia (as N)	1		7.26 mg/l			
Discharge flow	1	16,970.25 gallons				
pH (report as range)	1	7.84				
Temperature (winter)	1	65.3 F				
Temperature (summer)	N/A	N/A				

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

Effluent Characteristics Continued

4.3 Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)?

☐ Yes ☒ 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	Conc.	
Fecal coliform						
E. coli						
Enterococci						

4.5 Is chlorine used (or will it be used)?

☒ Yes ☐ No ➔ SKIP to Item 4.7.

4.6 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant OUTFALL 002	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	1		Not detected			

4.7 Is non-contact cooling water discharged (or will it be discharged)?

☒ Yes ☐ No ➔ SKIP to Section 5.

4.8 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant OUTFALL 002	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		Not detected			
Total organic carbon (TOC)	1		3.39 mg/l			

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?

☐ Yes ➔ Complete this section. ☒ 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).

BioAbsorb used in vehicle wash pad discharges

[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	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish	

FORM 2E NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH DISCHARGE ONLY NONPROCESS WASTEWATER

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(h)(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
001	Tributary to Bryants Creek	33° 42′ 43.50″ N	-87° 15′ 32.52″ W
002	Collection Pond then Tributary	33° 42′ 43.38″ N	-87° 15′ 34.58″ W
003	Tributary to Bryants Creek	33° 42′ 41.18″ N	-87° 15′ 41.51″ W

SECTION 2. DISCHARGE DATE (40 CFR 122.21(h)(2))

Discharge Date

2.1 Are you a new or existing discharger? (Check only one response.)

☐ New discharger ☒ Existing discharger → SKIP to Section 3.

2.2 Specify your anticipated discharge date:

SECTION 3. WASTE TYPES (40 CFR 122.21(h)(3))

Waste Types

3.1 What types of wastes are currently being discharged if you are an existing discharger or will be discharged if you are a new discharger? (Check all that apply.)

☐ Sanitary wastes
☐ Restaurant or cafeteria waste
☒ Non-contact cooling water
☒ Other nonprocess wastewater (describe/explain directly below)

Boiler blowdown, uncontaminated railcar condensate, industrial stormwater associatiated with blasting agents manufacturing, uncontaminated compressor condensate, exterior vehicle wash water

3.2 Does the facility use cooling water additives?

☐ Yes ☒ No → SKIP to Section 4.

3.3 List the cooling water additives used and describe their composition.

Cooling Water Additives (list)	Composition of Additives (if available to you)

SECTION 4. EFFLUENT CHARACTERISTICS (40 CFR 122.21(h)(4))

Effluent Characteristics

4.1 Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package?

☒ Yes ☐ No; a waiver has been requested from my NPDES permitting authority (attach waiver request and additional information) → SKIP to Section 5.

4.2 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant OUTFALL 003	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units) Mass	Maximum Daily Discharge (specify units) Conc.	Average Daily Discharge (specify units) Mass	Average Daily Discharge (specify units) Conc.	Source (use codes per instructions)
Biochemical oxygen demand (BOD_5)	1		5.43 mg/l			
Total suspended solids (TSS)	1		130 mg/l			
Oil and grease	1		Not detected			
Ammonia (as N)	1		3.67 mg/l			
Discharge flow	1	5,430.48 gallons				
pH (report as range)	1	8.30				
Temperature (winter)	1	65.48 F				
Temperature (summer)	N/A	N/A				

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

Effluent Characteristics Continued

4.3 Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)?

☐ Yes ☒ 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	Conc.	
Fecal coliform						
E. coli						
Enterococci						

4.5 Is chlorine used (or will it be used)?

☒ Yes ☐ No ➔ SKIP to Item 4.7.

4.6 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant OUTFALL 003	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	1		Not detected			

4.7 Is non-contact cooling water discharged (or will it be discharged)?

☒ Yes ☐ No ➔ SKIP to Section 5.

4.8 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant OUTFALL 003	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		Not detected			
Total organic carbon (TOC)	1		7.37 mg/l			

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?

☐ Yes ➔ Complete this section. ☒ 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 systems used for discharges at Outfall 003.

[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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SECTION 7. OTHER INFORMATION (40 CFR 122.21(h)(7))

Other Information

7.1 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.

To prepare this application, samples were collected from all on-site outfalls. Outfall 002 collects non-process wastewater discharges. Effluent analysis data for Outfalls 002 and 003 are included as additional attachments with the AEPACS form.

SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

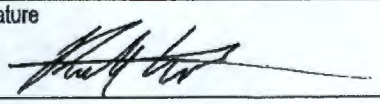
Checklist and Certification Statement

8.1 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
☒ Section 1: Outfall Location	☐ w/ attachments (e.g., responses for additional outfalls)
☒ Section 2: Discharge Date	☐ w/ attachments
☒ Section 3: Waste Types	☐ w/ attachments
☒ Section 4: Effluent Characteristics	☐ w/ attachments
☒ Section 5: Flow	☐ w/ attachments
☒ Section 6: Treatment System	☐ w/ attachments
☒ Section 7: Other Information	☐ w/ attachments
☒ Section 8: Checklist and Certification Statement	☐ w/ attachments

8.2 **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)	Official title
Russell Lamont	Vice President, Sales and Commercial
Signature	**Date signed**
	12/19/24

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
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Form 2F NPDES

EPA

U.S Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY

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

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below

Outfall Number	Receiving Water Name	Latitude	Longitude
001	Tributary to Bryants Creek	33 ° 42 ′ 43.50 ″ N	-87 ° 15 ′ 32.52 ″ W
002	Collection Pond then Tributary	33 ° 42 ′ 43.38 ″ N	-87 ° 15 ′ 34.58 ″ W
003	Tributary to Bryants Creek	33 ° 42 ′ 41.18 ″ N	-87 ° 15 ′ 41.51 ″ W
		° ′ ″	° ′ ″
		° ′ ″	° ′ ″
		° ′ ″	° ′ ″

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

Improvements

2.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☐ Yes ☒ No → SKIP to Section 3.

2.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

2.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item)

☐ Yes ☒ No

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

Site Drainage Map

3.1 Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)

☒ Yes ☐ No

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

Pollutant Sources

4.1 Provide information on the facility's pollutant sources in the table below.

Outfall Number	Impervious Surface Area (within a mile radius of the facility)		Total Surface Area Drained (within a mile radius of the facility)	
001	50%	*specify units*	0.15 acres	*specify units*
002	40%	*specify units*	2.5 acres	*specify units*
003	0%	*specify units*	0.8 acres	*specify units*
		specify units		*specify units*
		specify units		*specify units*
		specify units		*specify units*

4.2 Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)

The facility stores gasoline, on-road diesel, off-road diesel, used oil, emergency generator fuel, mineral oil, SJF033 Titan Fuel Phase, Boiler Fuel, Titan 1000 LD emulsion, Titan 1000 SD emulsion, Titan 1000 G emulsion, Hydraulic Fluid, Motor Oil, Ammonium Nitrate Solution, Nitric Acid, Antifreeze, Acetic Acid, Nitrogen Triodide, Diesel Exhaust Fluid, Bio Absorb, boiler treatment chemicals: MIT 1022 and SWE-5041. Most materials are stored within secondary containment or within the buildings or under roof at facility. Bio Absorb is applied to vehicle wash water prior to discharging. The boiler blowdown is treated with the above mentioned chemicals prior to discharging.

The facility implements best management practices in material loading and other uncontained areas of the facility to prevent potential releases. In addition, a majority of the stormwater runoff collected from the operational areas is discharged to the stormwater collection pond to allow for stabilization before before discharged to the tributary. The water from the pond is only released if it reaches the level of the overflow pipe. The facility applies herbicide along the railroad track and roadways for vegetation control once a quarter using a manual hand sprayer. The facility does not apply any other pesticides, herbicides and soil conditioners.

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)
001	discharge to ground surface then tributary	4-A
002	discharge to collection pond then to tributary if overflow event occurs	3-G, 1-X
003	discharge to ground surface or drainage ditch then tributary	4-A

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish	

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
Jarrod Smith	Area Manager Commercial Operations AL
Signature: J Smith	Date signed: 12-19-24

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
001	visual observation	12/11/2024	Drainage area to outfall and exterior of outfall
002	visual observation	12/11/2024	Drainage area to outfall and exterior of outfall
003	visual observation	12/11/2024	Drainage area to outfall and exterior of outfall

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?

☐ Yes ➔ See instructions regarding submission of *estimated* data.

☒ No ➔ See instructions regarding submission of *actual* data.

Tables A, B, C, and D

7.2 Have you completed Table A for each outfall?

☒ Yes ☐ No

Discharge Information Continued

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

Discharge Information Continued

Used or Manufactured Toxics

7.18 Is any pollutant listed on Exhibits 2F–2 through 2F–4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?

☐ Yes ☒ No ➔ SKIP to Section 8.

7.19 List the pollutants below, including TCDD if applicable.

1.	4.	7.
2.	5.	8.
3.	6.	9.

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

Biological Toxicity Testing Data

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

☐ Yes ☒ No ➔ SKIP to Section 9.

8.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
		☐ Yes ☐ No	
		☐ Yes ☐ No	
		☐ Yes ☐ No	

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

Contract Analysis Information

9.1 Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?

☒ Yes ☐ No ➔ SKIP to Section 10.

9.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Pace Analytical National		
Laboratory address	12065 Lebanon Road Mount Juliet, TN 37122		
Phone number	615-758-5858		
Pollutant(s) analyzed	TSS, Oil and Grease, Ammonium Nitrogen, Nitrate-Nitrite, Phosphorous, COD, TRC, pH, BOD, TOC, BTEX		

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish	

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

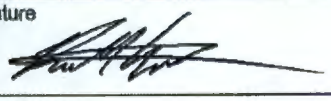
Checklist and Certification Statement

10.1 In Column 1 below, mark the sections of Form 2F that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.

Column 1	Column 2
☒ Section 1	☐ w/ attachments (e.g., responses for additional outfalls)
☒ Section 2	☐ w/ attachments
☒ Section 3	☒ w/ site drainage map
☒ Section 4	☐ w/ attachments
☒ Section 5	☐ w/ attachments
☒ Section 6	☐ w/ attachments
☒ Section 7	☒ Table A ☐ w/ small business exemption request ☒ Table B ☒ w/ analytical results as an attachment ☒ Table C ☒ Table D
☒ Section 8	☐ w/attachments
☒ Section 9	☐ w/attachments (e.g., responses for additional contact laboratories or firms)
☒ Section 10	☐

10.2 **Certification Statement**

I 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)	Official title
Russell Lamont	Vice President, Sales and Commercial
Signature 	Date signed 12/19/24

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALR000024281	AL0083810	Dyno Nobel Parrish	001

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	Not detected				1	
2.	Biochemical oxygen demand (BOD_5)	10.8 mg/l		10.8 mg/l		1	
3.	Chemical oxygen demand (COD)	22.8 mg/l		22.8 mg/l		1	
4.	Total suspended solids (TSS)	Not detected				1	
5.	Total phosphorus	Not detected				1	
6.	Total Kjeldahl nitrogen (TKN)	195.1 mg/l		195.1 mg/l		1	
7.	Total nitrogen (as N)	71.1 mg/l		71.1 mg/l		1	
8.	pH (minimum)	7.70		7.70		1	
	pH (maximum)	7.70		7.70		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	NPDES Permit Number	Facility Name	Outfall Number
ALR000024281	AL0083810	Dyno Nobel Parrish	002

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	Not detected				1	
2.	Biochemical oxygen demand (BOD_5)	3.5 mg/l		3.5 mg/l		1	
3.	Chemical oxygen demand (COD)	Not detected				1	
4.	Total suspended solids (TSS)	63.6 mg/l		63.6 mg/l		1	
5.	Total phosphorus	Not detected				1	
6.	Total Kjeldahl nitrogen (TKN)	51.76 mg/l		51.76 mg/l		1	
7.	Total nitrogen (as N)	7.26 mg/l		7.26 mg/l		1	
8.	pH (minimum)	7.84		7.84		1	
	pH (maximum)	7.84		7.84		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	NPDES Permit Number	Facility Name	Outfall Number
ALR000024281	AL0083810	Dyno Nobel Parrish	003

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	Not detected				1	
2.	Biochemical oxygen demand (BOD_5)	5.43 mg/l		5.43 mg/l		1	
3.	Chemical oxygen demand (COD)	Not detected				1	
4.	Total suspended solids (TSS)	130 mg/l		130 mg/l		1	
5.	Total phosphorus	0.663 mg/l		0.663 mg/l		1	
6.	Total Kjeldahl nitrogen (TKN)	12.99 mg/l		12.99 mg/l		1	
7.	Total nitrogen (as N)	3.67 mg/l		3.67 mg/l		1	
8.	pH (minimum)	8.30		8.30		1	
	pH (maximum)	8.30		8.30		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	NPDES Permit Number	Facility Name	Outfall Number
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish	

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		
N/A						

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALR000024281	AL0083810	Dyno Nobel Parrish	001

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

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		
Total Residual Chlorine	10.1 mg/l		10.1 mg/l		1	
Benzene	Not detected				1	
Ethylbenzene	Not detected				1	
Toluene	Not detected				1	
Xylenes	Not detected				1	
Naphthalene	Not detected				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	NPDES Permit Number	Facility Name	Outfall Number
ALR000024281	AL0083810	Dyno Nobel Parrish	002

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

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		
Total Residual Chlorine	Not detected				1	
Benzene	Not detected				1	
Ethylbenzene	Not detected				1	
Toluene	Not detected				1	
Xylenes	Not detected				1	
Naphthalene	Not detected				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	NPDES Permit Number	Facility Name	Outfall Number
ALR000024281	AL0083810	Dyno Nobel Parrish	003

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

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		
Total Residual Chlorine	Not detected				1	
Benzene	Not detected				1	
Ethylbenzene	Not detected				1	
Toluene	Not detected				1	
Xylenes	Not detected				1	
Naphthalene	Not detected				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	NPDES Permit Number	Facility name	Outfall Number
EPA ID ALR000024281	AL0083810	Dyno Nobel Parrish	

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

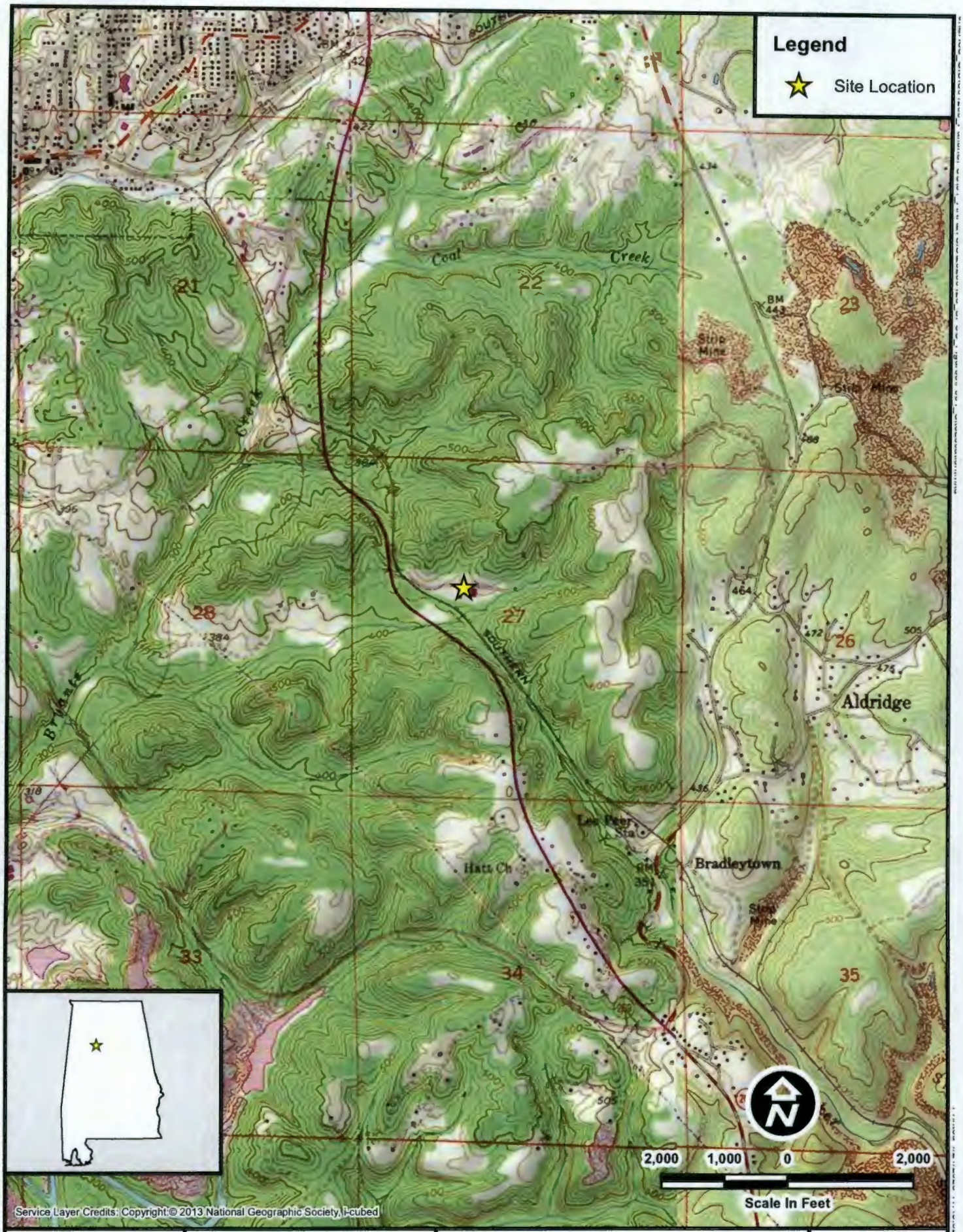
TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

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)
11/19/2024		0.25 inches	72	23,418.95 gallons	23,418.95 gallons

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

Observed on-site rain gauge for rainfall in measurement. Calculated approximated flow from each outfall using total rainfall and total surface area that discharges to each outfall.



Reviewed By:

EHS Support	Dyno Nobel Inc. 8425 Highway 269 Parrish, Alabama	Site Location	FIGURE 1

Facility Diagram

Dyno Nobel Inc.
8425 Highway 629
Parrish, Alabama

EHS Support

FIGURE 2

Reviewed By: J.Waddell

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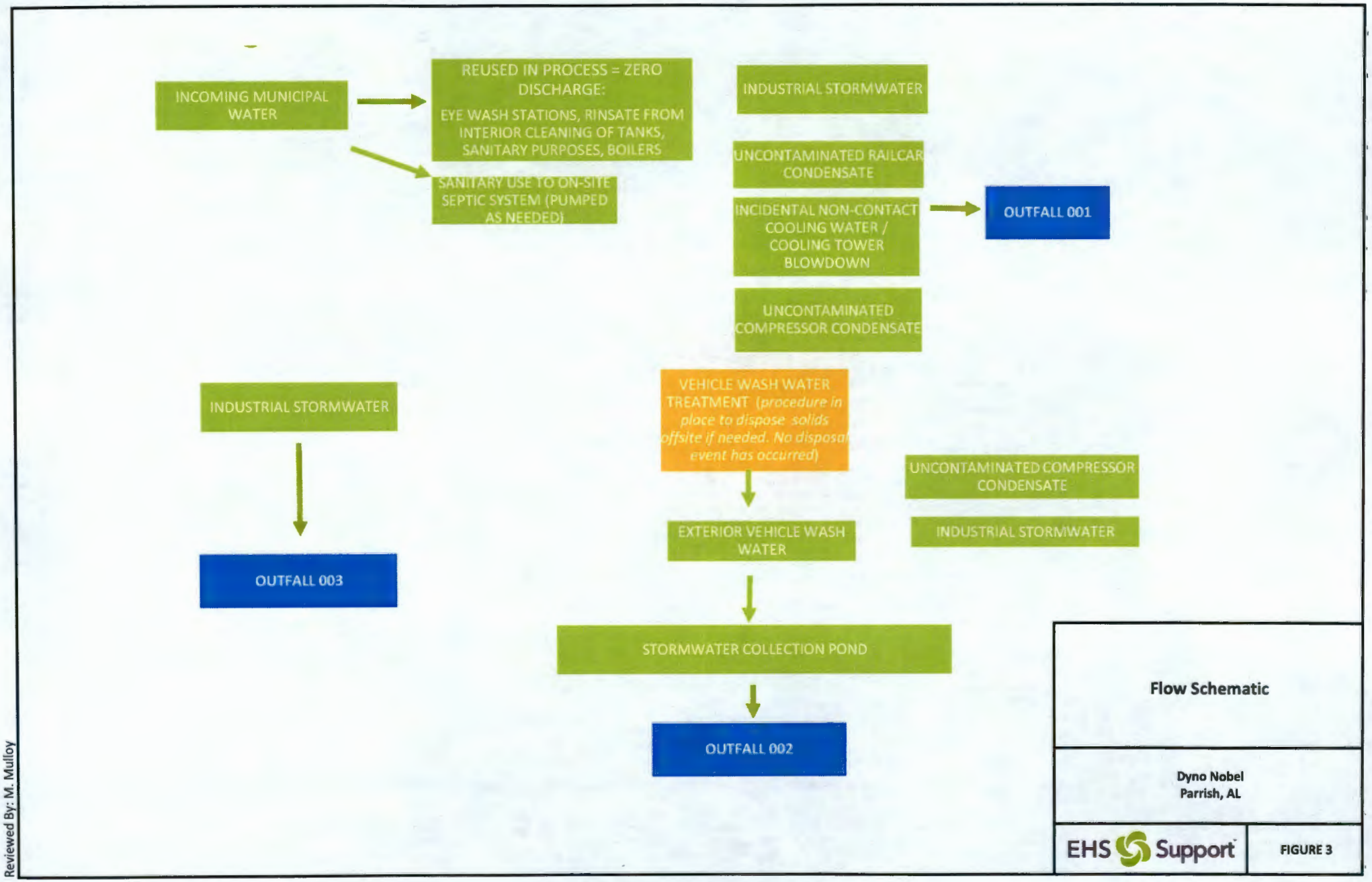


Reviewed By: M. Mulloy

The Dyno Nobel, Inc. Parrish facility does not operate automatic sampling equipment or continuous wastewater flow metering equipment.

December 16, 2019

Dyno Nobel

Permit Number: AL0083810

1. Name and general composition of boiler chemicals.
    a. Southwest Engineering MIT-1022. See attached SDS.
    b. Southwest Engineering SWE-5041. See attached SDS.

2. 96-hour median tolerance limit data for organism's representative of the biota of the waterway into which the discharge will ultimately reach.
    a. Aquatic Report with LC50 data submitted to Wayne Holt via email on 10/15/2019.

3. Quantities of boiler chemicals to be used.
    a. MIT-1022 - .010 gallons/hour
    b. SWE-5041 - .013 gallons/hour

4. Frequencies of use of boiler.
    a. Boiler operates 24/7. High load capacity during normal business hours Monday-Friday 8-10hr/day

5. Proposed discharge concentrations for boiler blowdown.
    a. Potassium - 42.2 mg/l
    b. Sodium - 136 mg/l
    c. Sulfite - .002 mg/l
    d. pH - 9.79

6. EPA registration number, if applicable.
    a. NA

MIT 1022

SAFETY DATA SHEET

Revision Date: October 30, 2019

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name:	**MIT 1022**
Chemical Family:	Proprietary Mixture
Supplier:	SOUTHWEST ENGINEERS 39478 Highway 190 East Slidell, LA 70461
Telephone:	(985) 643-1117
Fax:	(985) 641-4509
Emergency Number:	(800) 424-9300 – Chemtrec

Recommended use of the chemical and restrictions on use
Recommended use: general water treatment

2. HAZARDOUS IDENTIFICATION

Hazard classification
This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Corrosive to metals (Category 1)
Acute toxicity, Oral (Category 4)
Skin corrosion (Category 1)
Serious eye damage (Category 1)

Label elements
Hazard pictograms

Signal word: **Danger!**
Hazards
Corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage
Causes serious eye damage.

2. HAZARDOUS IDENTIFICATION - con't.

Precautionary statement(s)

Prevention

Keep only in original container.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
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.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.

STORAGE

Store locked up.
Store in corrosive resistant container.

DISPOSAL

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Hazardous Components

Chemical Name	CAS-NO.	Concentration (%)
Sodium Metabisulfite	7681-57-4	4 - 5
Potassium Hydroxide	1310-58-3	7 - 8
Sodium Hydroxide	1310-58-3	6 - 7

4. FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye contact: In case of eye contact Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4. FIRST AID MEASURES – con't.

Ingestion: If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: CO_2, dry chemical, foam, water spray

Special hazards: No test data

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep out of reach of children. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Components	Type of listing (form of exposure)	Permissible concentration	Basis
Sodium Hydroxide	TWA	2.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
Sodium Hydroxide	C	2.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Sodium Hydroxide	C	2.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
Potassium Hydroxide	C	2.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Potassium Hydroxide	C	2.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
Sodium Metabisulphite	STEL	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Sodium Metabisulphite	TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

Exposure controls

Engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Use tightly fitting safety goggles and or faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	liquid
Color	Dark brown
Odor	No test data available
Odor Threshold	No test data available
pH	> 12.5
Melting point/range	No test data available
Freezing point	No test data available
Boiling point (760 mmHg)	>212°F
Flash point	No test data available
Evaporation Rate (Butyl Acetate = 1)	No test data available
Flammability (solid, gas)	Not applicable to liquids
Lower explosion limit	No test data available
Upper explosion limit	No test data available
Vapor Pressure	No test data available
Relative Vapor Density (air = 1)	No test data available
Relative Density (water = 1)	1.232
Solubility in water	Complete
Partition coefficient	No test data available
Auto-ignition temperature	No test data available
Decomposition temperature	No test data available
Viscosity	No test data available

10. STABILITY & REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Acidic solutions and strong oxidizing agents.

Hazardous decomposition products: Sulfur oxides, nitrogen oxides, and carbon dioxide may form if exposed to flame.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute toxicity
No data available

Inhalation
No data available

Dermal
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxicity

Aquatic Invertebrates: Daphnia magna (Crustacea) LC50 > 100 mg/L (Classification based on Aquatic Additivity Formula)

Freshwater Fish Toxicity: LC50 > 100 mg/L (Classification based on Aquatic Additivity Formula)

12. ECOLOGICAL INFORMATION – con't.

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred option is to contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. The preferred option in other jurisdictions is to contact the regulatory authority for this product for guidance. Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Local regulations may be more stringent that Federal or State.

14. TRANSPORTATION INFORMATION

DOT

UN Number:	UN 3266
Proper Shipping Name:	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)
Hazard Class:	8
Packing Group:	III
Label Required:	CORROSIVE

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 302
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312
Acute Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Massachusetts Right To Know Components
Sodium hydroxide, Sodium metabisulphite, Potassium hydroxide

Pennsylvania Right To Know Components
Sodium hydroxide, Sodium metabisulphite, Potassium hydroxide

New Jersey Right To Know Components
Sodium hydroxide, Sodium metabisulphite, Potassium hydroxide

16. OTHER INFORMATION

Revision Date: October 30, 2019

Hazard Ratings:

Health =	3	0 = Least
Fire =	0	1 = Slight
Reactivity =	1	2 = Moderate
		3 = High
		4 = Extreme

The information herein is presented in good faith and believed to be correct as of the date hereof. However, Southwest Engineers makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made. Southwest Engineers shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use or reliance upon information contained herein.

FOR FURTHER INFORMATION CONTACT:

SOUTHWEST ENGINEERS
Post Office Box 2499
Slidell, LA 70459-2499
Telephone: (800) 878-7445 or (985) 643-1117
Fax: (985) 641-4509

SWE 5041

SAFETY DATA SHEET

Revision Date: October 30, 2019

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name:	**SWE 5041**
Chemical Family:	Proprietary Mixture
Supplier:	SOUTHWEST ENGINEERS 39478 Highway 190 East Slidell, LA 70461
Telephone:	(985) 643-1117
Fax:	(985) 641-4509
Emergency Number:	(800) 424-9300 – Chemtrec

Recommended use of the chemical and restrictions on use
Recommended use: general water treatment

2. HAZARDOUS IDENTIFICATION

Hazard classification
This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Corrosive to metals (Category 1)
Skin corrosion (Category 1)
Serious eye damage (Category 1)

Label elements
Hazard pictograms

Signal word: **Danger!**
Hazards
May be corrosive to metals.
Causes severe skin burns and eye damage
Causes serious eye damage.

2. HAZARDOUS IDENTIFICATION – con't.

Precautionary statement(s)

Prevention

Keep only in original container.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON CENTER or doctor/ physician.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
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.
Wash contaminated clothing before reuse.
Collect spillage.

STORAGE

Store locked up.
Store in corrosive resistant container.

DISPOSAL

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Hazardous Components

Chemical Name	CAS-NO.	Concentration (%)
Sodium Metabisulfite	7681-57-4	7 - 8
Morpholine	110-91-8	1 - 2
Potassium Hydroxide	1310-58-3	16 - 17

4. FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye contact: In case of eye contact Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4. FIRST AID MEASURES – con't.

Ingestion: If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: CO_2, dry chemical, foam, water spray

Special hazards: No test data

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep out of reach of children. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Keep from freezing. Freezes at 14°F. Keep containers closed when not in use. Avoid inhaling vapors or mists.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Components	Type of listing (form of exposure)	Permissible concentration	Basis
Potassium Hydroxide	C	2.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Potassium Hydroxide	C	2.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
Morpholine	TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)
Morpholine	TWA	20.000000 ppm 70.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
Morpholine	ST	30.000000 ppm 105.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
Morpholine	TWA	20.000000 ppm 70.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
Sodium Metabisulphite	STEL	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Sodium Metabisulphite	TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

Exposure controls

Engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Use tightly fitting safety goggles and or faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	liquid
Color	colorless
Odor	No test data available
Odor Threshold	No test data available
pH	No test data available
Melting point/range	No test data available
Freezing point	<32°F
Boiling point (760 mmHg)	>212°F
Flash point	No test data available
Evaporation Rate (Butyl Acetate = 1)	No test data available
Flammability (solid, gas)	Not applicable to liquids
Lower explosion limit	No test data available
Upper explosion limit	No test data available
Vapor Pressure	No test data available
Relative Vapor Density (air = 1)	No test data available
Relative Density (water = 1)	1.224 ± 0.01
Solubility in water	Complete
Partition coefficient	No test data available
Auto-ignition temperature	No test data available
Decomposition temperature	No test data available
Viscosity	No test data available

10. STABILITY & REACTIVITY

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Sulfur oxides will form if exposed to flame.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute toxicity
No data available

Inhalation
No data available

Dermal
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxicity

Aquatic Invertebrates: Daphnia magna (Crustacea) LC50 > 100 mg/L (Classification based on Aquatic Additivity Formula)

Freshwater Fish Toxicity: LC50 > 100 mg/L (Classification based on Aquatic Additivity Formula)

12. ECOLOGICAL INFORMATION – con't.

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred option is to contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. The preferred option in other jurisdictions is to contact the regulatory authority for this product for guidance. Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Local regulations may be more stringent that Federal or State.

14. TRANSPORTATION INFORMATION

DOT

UN Number:	UN 3266
Proper Shipping Name:	Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide)
Hazard Class:	8
Packing Group:	III
Label Required:	CORROSIVE

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 302
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312
Acute Health Hazard

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)
This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Massachusetts Right To Know Components
Potassium hydroxide, Morpholine, Sodium metabisulphite

Pennsylvania Right To Know Components
Potassium hydroxide, Morpholine, Sodium metabisulphite

New Jersey Right To Know Components
Potassium hydroxide, Morpholine, Sodium metabisulphite

16. OTHER INFORMATION

Revision Date: October 30, 2019

Hazard Ratings:	HMIS	NFPA	
Health =	1	1	0 = Least
Fire =	0	0	1 = Slight
Reactivity =	1	1	2 = Moderate
			3 = High
			4 = Extreme

The information herein is presented in good faith and believed to be correct as of the date hereof. However, Southwest Engineers makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made. Southwest Engineers shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use or reliance upon information contained herein.

16. OTHER INFORMATION– con't.

FOR FURTHER INFORMATION CONTACT:

SOUTHWEST ENGINEERS
Post Office Box 2499
Slidell, LA 70459-2499
Telephone: (800) 878-7445 or (985) 643-1117
Fax: (985) 641-4509

ANALYTICAL REPORT

December 03, 2024

Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

EHS Support LLC - Pittsburgh, PA

Sample Delivery Group:	L1801709
Samples Received:	11/20/2024
Project Number:	LLC.06117.0000
Description:	DNI-PArnch,al

Report To: Molly Mulloy
4885 McKnight Road
#188
Pittsburgh, PA 15237

Entire Report Reviewed By:

Jordan N Zito
Project Manager

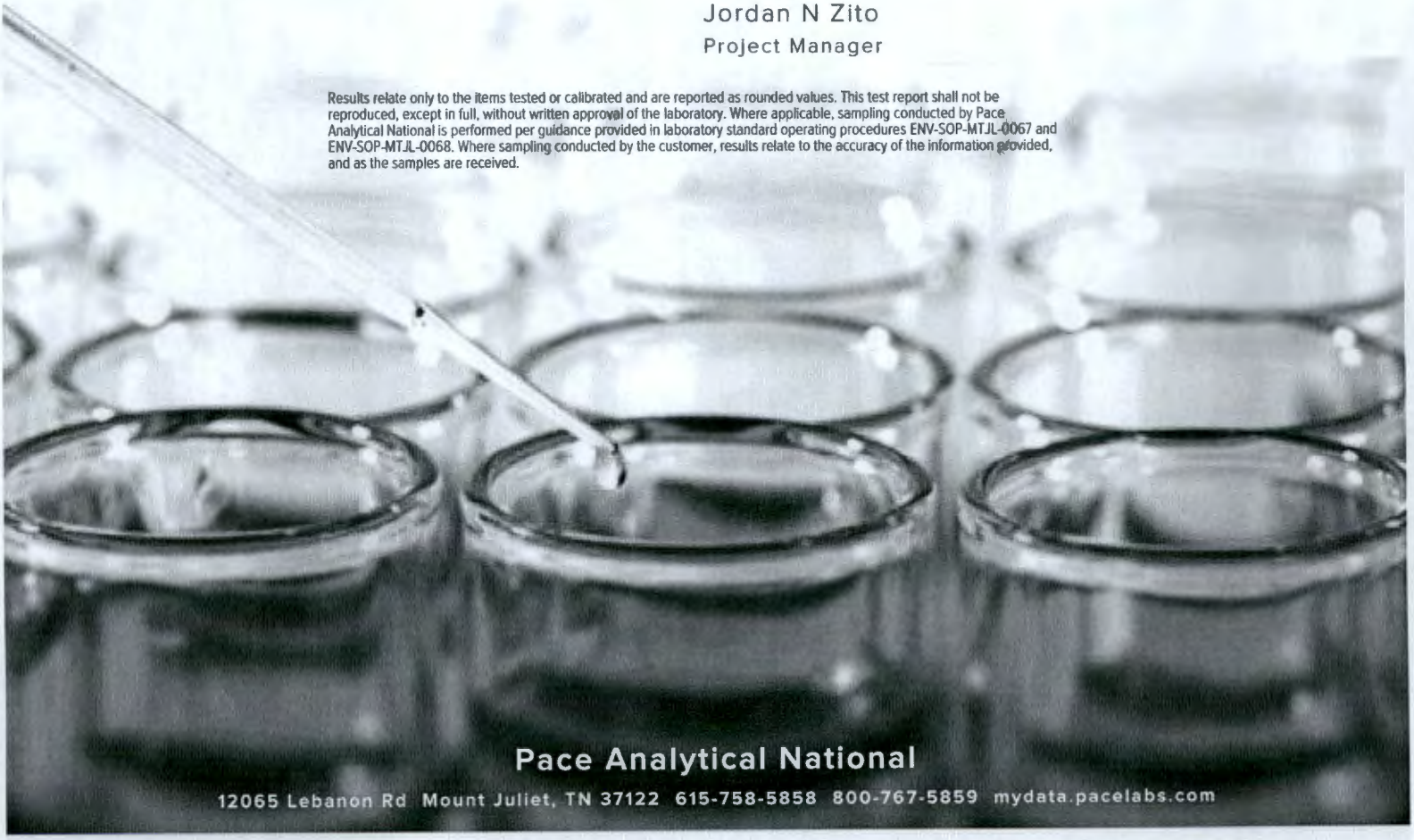


TABLE OF CONTENTS

SAMPLE SUMMARY

OUTFALL 001 L1801709-01 WW

Collected by: Jonathan Waddell | Collected date/time: 11/19/24 13:00 | Received date/time: 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2020	WG2405523	1	11/20/24 22:22	11/21/24 22:54	JAC	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2408923	1	11/26/24 16:21	11/26/24 22:07	DAL	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2405754	20	11/21/24 17:23	11/21/24 17:23	RTW	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2408007	100	11/25/24 14:04	11/25/24 14:04	KMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2408388	1	11/25/24 08:23	11/25/24 17:32	AEC	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2408195	1	11/26/24 10:15	11/26/24 14:31	CEB	Mt. Juliet, TN
Wet Chemistry by Method 4500Cl G-2011	WG2407742	1	11/24/24 14:57	11/24/24 14:57	CAH	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG2405318	1	11/20/24 18:20	11/20/24 18:20	KRB	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2016	WG2405072	1	11/20/24 17:02	11/25/24 13:51	MEL	Mt. Juliet, TN
Wet Chemistry by Method 5310 B-2014	WG2408817	1	11/28/24 06:35	11/28/24 06:35	AF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 624.1	WG2410718	1	11/30/24 23:04	11/30/24 23:04	DWR	Mt. Juliet, TN

OUTFALL 002 L1801709-02 WW

Collected by: Jonathan Waddell | Collected date/time: 11/19/24 12:15 | Received date/time: 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2020	WG2405523	1	11/20/24 22:22	11/21/24 22:54	JAC	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2408923	1	11/26/24 16:21	11/26/24 22:07	DAL	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2405754	1	11/21/24 17:01	11/21/24 17:01	RTW	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2408007	50	11/25/24 14:06	11/25/24 14:06	KMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2408388	1	11/25/24 08:23	11/25/24 17:33	AEC	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2408195	1	11/26/24 10:15	11/26/24 14:31	CEB	Mt. Juliet, TN
Wet Chemistry by Method 4500Cl G-2011	WG2407742	1	11/24/24 14:58	11/24/24 14:58	CAH	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG2405318	1	11/20/24 18:20	11/20/24 18:20	KRB	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2016	WG2405072	1	11/20/24 17:05	11/25/24 13:53	MEL	Mt. Juliet, TN
Wet Chemistry by Method 5310 B-2014	WG2408817	1	11/28/24 06:49	11/28/24 06:49	AF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 624.1	WG2410718	1	11/30/24 23:23	11/30/24 23:23	DWR	Mt. Juliet, TN

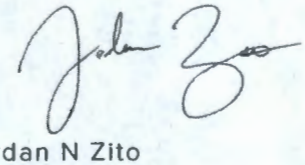
OUTFALL 003 L1801709-03 WW

Collected by: Jonathan Waddell | Collected date/time: 11/19/24 11:15 | Received date/time: 11/20/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2020	WG2405523	1	11/20/24 22:22	11/21/24 22:54	JAC	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2408923	1	11/26/24 16:21	11/26/24 22:07	DAL	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2405754	1	11/21/24 17:03	11/21/24 17:03	RTW	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2408007	2	11/25/24 14:07	11/25/24 14:07	KMB	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2408388	1	11/25/24 08:23	11/25/24 17:34	AEC	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2408195	1	11/26/24 10:15	11/26/24 14:31	CEB	Mt. Juliet, TN
Wet Chemistry by Method 4500Cl G-2011	WG2407742	1	11/24/24 14:58	11/24/24 14:58	CAH	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG2405318	1	11/20/24 18:20	11/20/24 18:20	KRB	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2016	WG2405072	1	11/20/24 17:09	11/25/24 13:55	MEL	Mt. Juliet, TN
Wet Chemistry by Method 5310 B-2014	WG2408817	1	11/28/24 07:07	11/28/24 07:07	AF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 624.1	WG2410718	1	11/30/24 23:42	11/30/24 23:42	DWR	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jordan N Zito
Project Manager

Sample Delivery Group (SDG) Narrative

Sample quantity was not sufficient to complete analysis per recommended method guidelines for the following samples.

Lab Sample ID	Project Sample ID	Method
L1801709-01	OUTFALL 001	2540 D-2020

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	ND		2.73	1	11/21/2024 22:54	WG2405523

Wet Chemistry by Method 1664B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	ND		6.25	1	11/26/2024 22:07	WG2408923

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	71.1		2.00	20	11/21/2024 17:23	WG2405754

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	124		20.0	100	11/25/2024 14:04	WG2408007

Wet Chemistry by Method 365.4

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	ND		0.100	1	11/25/2024 17:32	WG2408388

Wet Chemistry by Method 410.4

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
COD	22.8		20.0	1	11/26/2024 14:31	WG2408195

Wet Chemistry by Method 4500Cl G-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorine,residual	0.775	T8	0.100	1	11/24/2024 14:57	WG2407742

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.70	T8	1	11/20/2024 18:20	WG2405318

Sample Narrative:

L1801709-01 WG2405318: 7.7 at 18.3C

Wet Chemistry by Method 5210 B-2016

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
BOD	10.8		3.33	1	11/25/2024 13:51	WG2405072

Wet Chemistry by Method 5310 B-2014

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	10.1		1.00	1	11/28/2024 06:35	WG2408817

Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	11/30/2024 23:04	WG2410718
Bromodichloromethane	ND		0.00100	1	11/30/2024 23:04	WG2410718
Bromoform	ND		0.00100	1	11/30/2024 23:04	WG2410718
Bromomethane	ND		0.00500	1	11/30/2024 23:04	WG2410718
Carbon tetrachloride	ND	J4	0.00100	1	11/30/2024 23:04	WG2410718
Chlorobenzene	ND		0.00100	1	11/30/2024 23:04	WG2410718
Chlorodibromomethane	ND		0.00100	1	11/30/2024 23:04	WG2410718
Chloroethane	ND		0.00500	1	11/30/2024 23:04	WG2410718
2-Chloroethyl vinyl ether	ND		0.0500	1	11/30/2024 23:04	WG2410718
Chloroform	ND		0.00500	1	11/30/2024 23:04	WG2410718
Chloromethane	ND	J4	0.00250	1	11/30/2024 23:04	WG2410718
1,2-Dichlorobenzene	ND		0.00100	1	11/30/2024 23:04	WG2410718
1,3-Dichlorobenzene	ND		0.00100	1	11/30/2024 23:04	WG2410718
1,4-Dichlorobenzene	ND		0.00100	1	11/30/2024 23:04	WG2410718
Dichlorodifluoromethane	ND		0.00500	1	11/30/2024 23:04	WG2410718
1,1-Dichloroethane	ND		0.00100	1	11/30/2024 23:04	WG2410718
1,2-Dichloroethane	ND		0.00100	1	11/30/2024 23:04	WG2410718
1,1-Dichloroethene	ND		0.00100	1	11/30/2024 23:04	WG2410718
trans-1,2-Dichloroethene	ND		0.00100	1	11/30/2024 23:04	WG2410718
1,2-Dichloropropane	ND		0.00100	1	11/30/2024 23:04	WG2410718
cis-1,3-Dichloropropene	ND		0.00100	1	11/30/2024 23:04	WG2410718
trans-1,3-Dichloropropene	ND		0.00100	1	11/30/2024 23:04	WG2410718
Ethylbenzene	ND		0.00100	1	11/30/2024 23:04	WG2410718
Methylene Chloride	ND		0.00500	1	11/30/2024 23:04	WG2410718
Methyl tert-butyl ether	ND		0.00100	1	11/30/2024 23:04	WG2410718
Naphthalene	ND		0.00500	1	11/30/2024 23:04	WG2410718
1,1,2,2-Tetrachloroethane	ND		0.00100	1	11/30/2024 23:04	WG2410718
Tetrachloroethene	ND		0.00100	1	11/30/2024 23:04	WG2410718
Toluene	ND		0.00100	1	11/30/2024 23:04	WG2410718
1,1,1-Trichloroethane	ND		0.00100	1	11/30/2024 23:04	WG2410718
1,1,2-Trichloroethane	ND		0.00100	1	11/30/2024 23:04	WG2410718
Trichloroethene	ND		0.00100	1	11/30/2024 23:04	WG2410718
Trichlorofluoromethane	ND		0.00500	1	11/30/2024 23:04	WG2410718
Vinyl chloride	ND		0.00100	1	11/30/2024 23:04	WG2410718
(S) Toluene-d8	*101*		*80.0-120*		*11/30/2024 23:04*	WG2410718
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*11/30/2024 23:04*	WG2410718
(S) 1,2-Dichloroethane-d4	*95.6*		*70.0-130*		*11/30/2024 23:04*	WG2410718

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	63.6		10.0	1	11/21/2024 22:54	WG2405523

Wet Chemistry by Method 1664B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	ND		6.10	1	11/26/2024 22:07	WG2408923

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	7.26		0.100	1	11/21/2024 17:01	WG2405754

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	44.5		10.0	50	11/25/2024 14:06	WG2408007

Wet Chemistry by Method 365.4

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	ND		0.100	1	11/25/2024 17:33	WG2408388

Wet Chemistry by Method 410.4

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
COD	ND		20.0	1	11/26/2024 14:31	WG2408195

Wet Chemistry by Method 4500Cl G-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorine,residual	ND	T8	0.100	1	11/24/2024 14:58	WG2407742

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.84	T8	1	11/20/2024 18:20	WG2405318

Sample Narrative:

L1801709-02 WG2405318: 7.84 at 18.5C

Wet Chemistry by Method 5210 B-2016

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
BOD	3.50		3.33	1	11/25/2024 13:53	WG2405072

Wet Chemistry by Method 5310 B-2014

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3.39		1.00	1	11/28/2024 06:49	WG2408817

OUTFALL 002

Collected date/time: 11/19/24 12:15

SAMPLE RESULTS - 02

L1801709

Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	11/30/2024 23:23	WG2410718
Bromodichloromethane	ND		0.00100	1	11/30/2024 23:23	WG2410718
Bromoform	ND		0.00100	1	11/30/2024 23:23	WG2410718
Bromomethane	ND		0.00500	1	11/30/2024 23:23	WG2410718
Carbon tetrachloride	ND	J4	0.00100	1	11/30/2024 23:23	WG2410718
Chlorobenzene	ND		0.00100	1	11/30/2024 23:23	WG2410718
Chlorodibromomethane	ND		0.00100	1	11/30/2024 23:23	WG2410718
Chloroethane	ND		0.00500	1	11/30/2024 23:23	WG2410718
2-Chloroethyl vinyl ether	ND		0.0500	1	11/30/2024 23:23	WG2410718
Chloroform	ND		0.00500	1	11/30/2024 23:23	WG2410718
Chloromethane	ND	J4	0.00250	1	11/30/2024 23:23	WG2410718
1,2-Dichlorobenzene	ND		0.00100	1	11/30/2024 23:23	WG2410718
1,3-Dichlorobenzene	ND		0.00100	1	11/30/2024 23:23	WG2410718
1,4-Dichlorobenzene	ND		0.00100	1	11/30/2024 23:23	WG2410718
Dichlorodifluoromethane	ND		0.00500	1	11/30/2024 23:23	WG2410718
1,1-Dichloroethane	ND		0.00100	1	11/30/2024 23:23	WG2410718
1,2-Dichloroethane	ND		0.00100	1	11/30/2024 23:23	WG2410718
1,1-Dichloroethene	ND		0.00100	1	11/30/2024 23:23	WG2410718
trans-1,2-Dichloroethene	ND		0.00100	1	11/30/2024 23:23	WG2410718
1,2-Dichloropropane	ND		0.00100	1	11/30/2024 23:23	WG2410718
cis-1,3-Dichloropropene	ND		0.00100	1	11/30/2024 23:23	WG2410718
trans-1,3-Dichloropropene	ND		0.00100	1	11/30/2024 23:23	WG2410718
Ethylbenzene	ND		0.00100	1	11/30/2024 23:23	WG2410718
Methylene Chloride	ND		0.00500	1	11/30/2024 23:23	WG2410718
Methyl tert-butyl ether	ND		0.00100	1	11/30/2024 23:23	WG2410718
Naphthalene	ND		0.00500	1	11/30/2024 23:23	WG2410718
1,1,2,2-Tetrachloroethane	ND		0.00100	1	11/30/2024 23:23	WG2410718
Tetrachloroethene	ND		0.00100	1	11/30/2024 23:23	WG2410718
Toluene	ND		0.00100	1	11/30/2024 23:23	WG2410718
1,1,1-Trichloroethane	ND		0.00100	1	11/30/2024 23:23	WG2410718
1,1,2-Trichloroethane	ND		0.00100	1	11/30/2024 23:23	WG2410718
Trichloroethene	ND		0.00100	1	11/30/2024 23:23	WG2410718
Trichlorofluoromethane	ND		0.00500	1	11/30/2024 23:23	WG2410718
Vinyl chloride	ND		0.00100	1	11/30/2024 23:23	WG2410718
(S) Toluene-d8	*99.9*		*80.0-120*		*11/30/2024 23:23*	WG2410718
(S) 4-Bromofluorobenzene	*97.3*		*80.0-120*		*11/30/2024 23:23*	WG2410718
(S) 1,2-Dichloroethane-d4	*98.1*		*70.0-130*		*11/30/2024 23:23*	WG2410718

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	130		12.5	1	11/21/2024 22:54	WG2405523

Wet Chemistry by Method 1664B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	ND		5.56	1	11/26/2024 22:07	WG2408923

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	3.67		0.100	1	11/21/2024 17:03	WG2405754

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	9.32		0.400	2	11/25/2024 14:07	WG2408007

Wet Chemistry by Method 365.4

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	0.663		0.100	1	11/25/2024 17:34	WG2408388

Wet Chemistry by Method 410.4

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
COD	ND		20.0	1	11/26/2024 14:31	WG2408195

Wet Chemistry by Method 4500Cl G-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorine,residual	ND	T8	0.100	1	11/24/2024 14:58	WG2407742

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.30	T8	1	11/20/2024 18:20	WG2405318

Sample Narrative:

L1801709-03 WG2405318: 8.3 at 18.6C

Wet Chemistry by Method 5210 B-2016

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
BOD	5.43		3.33	1	11/25/2024 13:55	WG2405072

Wet Chemistry by Method 5310 B-2014

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7.37		1.00	1	11/28/2024 07:07	WG2408817

Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	11/30/2024 23:42	WG2410718
Bromodichloromethane	ND		0.00100	1	11/30/2024 23:42	WG2410718
Bromoform	ND		0.00100	1	11/30/2024 23:42	WG2410718
Bromomethane	ND		0.00500	1	11/30/2024 23:42	WG2410718
Carbon tetrachloride	ND	J4	0.00100	1	11/30/2024 23:42	WG2410718
Chlorobenzene	ND		0.00100	1	11/30/2024 23:42	WG2410718
Chlorodibromomethane	ND		0.00100	1	11/30/2024 23:42	WG2410718
Chloroethane	ND		0.00500	1	11/30/2024 23:42	WG2410718
2-Chloroethyl vinyl ether	ND		0.0500	1	11/30/2024 23:42	WG2410718
Chloroform	ND		0.00500	1	11/30/2024 23:42	WG2410718
Chloromethane	ND	J4	0.00250	1	11/30/2024 23:42	WG2410718
1,2-Dichlorobenzene	ND		0.00100	1	11/30/2024 23:42	WG2410718
1,3-Dichlorobenzene	ND		0.00100	1	11/30/2024 23:42	WG2410718
1,4-Dichlorobenzene	ND		0.00100	1	11/30/2024 23:42	WG2410718
Dichlorodifluoromethane	ND		0.00500	1	11/30/2024 23:42	WG2410718
1,1-Dichloroethane	ND		0.00100	1	11/30/2024 23:42	WG2410718
1,2-Dichloroethane	ND		0.00100	1	11/30/2024 23:42	WG2410718
1,1-Dichloroethene	ND		0.00100	1	11/30/2024 23:42	WG2410718
trans-1,2-Dichloroethene	ND		0.00100	1	11/30/2024 23:42	WG2410718
1,2-Dichloropropane	ND		0.00100	1	11/30/2024 23:42	WG2410718
cis-1,3-Dichloropropene	ND		0.00100	1	11/30/2024 23:42	WG2410718
trans-1,3-Dichloropropene	ND		0.00100	1	11/30/2024 23:42	WG2410718
Ethylbenzene	ND		0.00100	1	11/30/2024 23:42	WG2410718
Methylene Chloride	ND		0.00500	1	11/30/2024 23:42	WG2410718
Methyl tert-butyl ether	ND		0.00100	1	11/30/2024 23:42	WG2410718
Naphthalene	ND		0.00500	1	11/30/2024 23:42	WG2410718
1,1,2,2-Tetrachloroethane	ND		0.00100	1	11/30/2024 23:42	WG2410718
Tetrachloroethene	ND		0.00100	1	11/30/2024 23:42	WG2410718
Toluene	ND		0.00100	1	11/30/2024 23:42	WG2410718
1,1,1-Trichloroethane	ND		0.00100	1	11/30/2024 23:42	WG2410718
1,1,2-Trichloroethane	ND		0.00100	1	11/30/2024 23:42	WG2410718
Trichloroethene	ND		0.00100	1	11/30/2024 23:42	WG2410718
Trichlorofluoromethane	ND		0.00500	1	11/30/2024 23:42	WG2410718
Vinyl chloride	ND		0.00100	1	11/30/2024 23:42	WG2410718
(S) Toluene-d8	*99.9*		*80.0-120*		*11/30/2024 23:42*	WG2410718
(S) 4-Bromofluorobenzene	*98.4*		*80.0-120*		*11/30/2024 23:42*	WG2410718
(S) 1,2-Dichloroethane-d4	*106*		*70.0-130*		*11/30/2024 23:42*	WG2410718

Method Blank (MB)

(MB) R4150035-1 11/21/24 22:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	U		0.283	2.50

L1801686-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801686-01 11/21/24 22:54 • (DUP) R4150035-3 11/21/24 22:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	167	162	1	3.04		10

L1801709-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1801709-03 11/21/24 22:54 • (DUP) R4150035-4 11/21/24 22:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	130	135	1	4.16		10

Laboratory Control Sample (LCS)

(LCS) R4150035-2 11/21/24 22:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	824	107	85.0-115	

QUALITY CONTROL SUMMARY

L1801709-01,02,03

Method Blank (MB)

(MB) R4151090-1 11/26/24 22:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Oil & Grease (Hexane Extr)	U		1.40	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4151090-2 11/26/24 22:07 • (LCSD) R4151090-3 11/26/24 22:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	40.0	41.1	40.3	103	101	78.0-114			1.97	20

L1801710-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1801710-04 11/26/24 22:07 • (MS) R4151090-4 11/26/24 22:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Oil & Grease (Hexane Extr)	40.0	99.2	82.4	0.000	1	78.0-114	J6

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

QUALITY CONTROL SUMMARY

L1801709-01,02,03

Method Blank (MB)

(MB) R4149145-1 11/21/24 16:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	U		0.0539	0.100

L1801695-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801695-01 11/21/24 16:51 • (DUP) R4149145-6 11/21/24 16:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1801692-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801692-01 11/21/24 17:35 • (DUP) R4149145-8 11/21/24 17:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.328	0.122	1	91.6	P1	10

Laboratory Control Sample (LCS)

(LCS) R4149145-2 11/21/24 16:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.10	94.7	90.0-110	

L1801692-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801692-01 11/21/24 17:35 • (MS) R4149145-4 11/21/24 16:48 • (MSD) R4149145-5 11/21/24 16:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.328	4.89	4.87	91.2	90.9	1	90.0-110			0.307	10

L1801695-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1801695-01 11/21/24 16:51 • (MS) R4149145-7 11/21/24 16:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	4.74	94.8	1	90.0-110	

QUALITY CONTROL SUMMARY

L1801709-01,02,03

Method Blank (MB)

(MB) R4150312-1 11/25/24 13:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0435	0.200

L1801614-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801614-01 11/25/24 13:49 • (DUP) R4150312-3 11/25/24 13:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	2.11	2.10	1	0.475		20

L1801930-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801930-01 11/25/24 14:20 • (DUP) R4150312-5 11/25/24 14:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	25.0	25.0	10	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4150312-2 11/25/24 13:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.49	99.6	90.0-110	

L1801614-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1801614-01 11/25/24 13:49 • (MS) R4150312-4 11/25/24 13:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	2.50	2.11	4.52	96.4	1	90.0-110	

L1801930-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801930-01 11/25/24 14:20 • (MS) R4150312-6 11/25/24 14:22 • (MSD) R4150312-7 11/25/24 14:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	25.0	25.0	48.4	47.7	93.6	90.8	10	90.0-110			1.46	20

QUALITY CONTROL SUMMARY

L1801709-01,02,03

Method Blank (MB)

(MB) R4150514-4 11/25/24 17:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus,Total	0.0249	J	0.00373	0.100

L1801683-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801683-01 11/25/24 18:45 • (DUP) R4150514-3 11/25/24 18:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	13.7	15.6	5	12.6		20

Laboratory Control Sample (LCS)

(LCS) R4150514-5 11/25/24 17:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	4.30	3.67	85.3	85.0-115	

L1801651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801651-01 11/25/24 18:40 • (MS) R4150514-1 11/25/24 18:41 • (MSD) R4150514-2 11/25/24 18:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	2.50	7.60	9.38	9.14	71.2	61.6	2	90.0-110	J6	J6	2.59	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4150861-1 11/26/24 14:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	U		14.1	20.0

L1801458-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801458-01 11/26/24 14:24 • (DUP) R4150861-5 11/26/24 14:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
COD	ND	ND	1	0.000		20

L1801458-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1801458-02 11/26/24 14:25 • (DUP) R4150861-6 11/26/24 14:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
COD	22.7	22.7	1	0.150		20

Laboratory Control Sample (LCS)

(LCS) R4150861-2 11/26/24 14:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	524	105	90.0-110	

L1796224-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1796224-01 11/26/24 14:23 • (MS) R4150861-3 11/26/24 14:23 • (MSD) R4150861-4 11/26/24 14:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	ND	532	534	106	107	1	90.0-110			0.356	20

QUALITY CONTROL SUMMARY

L1801709-01,02,03

Method Blank (MB)

(MB) R4149983-1 11/24/24 14:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chlorine,residual	U		0.0415	0.100

L1802831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1802831-01 11/24/24 14:59 • (DUP) R4149983-4 11/24/24 15:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chlorine,residual	ND	ND	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4149983-2 11/24/24 14:55 • (LCSD) R4149983-3 11/24/24 14:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorine,residual	1.00	1.02	1.02	102	102	85.0-115			0.000	20

L1801010-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1801010-02 11/20/24 18:20 • (DUP) R4148622-2 11/20/24 18:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.88	7.89	1	0.127		1

Sample Narrative:

OS: 7.88 at 18.2C

DUP: 7.89 at 18.2C

L1801709-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1801709-03 11/20/24 18:20 • (DUP) R4148622-3 11/20/24 18:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.30	8.29	1	0.121		1

Sample Narrative:

OS: 8.3 at 18.6C

DUP: 8.29 at 18.6C

Laboratory Control Sample (LCS)

(LCS) R4148622-1 11/20/24 18:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.97	99.7	99.0-101	

Sample Narrative:

LCS: 9.97 at 19.6C

Method Blank (MB)

(MB) R4150422-1 11/25/24 09:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	U		0.200	0.200

L1801661-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1801661-01 11/25/24 13:31 • (DUP) R4150422-3 11/25/24 13:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	39.0	34.9	1	11.1		30

L1801709-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1801709-03 11/25/24 13:55 • (DUP) R4150422-4 11/25/24 13:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	5.43	5.26	1	3.18		30

Laboratory Control Sample (LCS)

(LCS) R4150422-2 11/25/24 13:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	187	94.4	84.6-115	

Laboratory Control Sample (LCS)

(LCS) R4150422-5 11/25/24 14:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	192	96.9	84.6-115	

Method Blank (MB)

(MB) R4151704-2 11/27/24 23:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	0.251		0.102	1.00

L1801442-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1801442-11 11/28/24 02:25 • (DUP) R4151704-5 11/28/24 02:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1.37	1.24	1	10.6		20

L1801458-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1801458-03 11/28/24 05:11 • (DUP) R4151704-8 11/28/24 05:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	ND	ND	1	3.97		20

Laboratory Control Sample (LCS)

(LCS) R4151704-1 11/27/24 23:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25.0	24.1	96.2	85.0-115	

L1801442-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801442-10 11/28/24 01:24 • (MS) R4151704-3 11/28/24 01:43 • (MSD) R4151704-4 11/28/24 02:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25.0	2.54	26.5	26.8	96.0	96.9	1	85.0-115			0.863	20

L1801458-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1801458-02 11/28/24 04:23 • (MS) R4151704-6 11/28/24 04:42 • (MSD) R4151704-7 11/28/24 04:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25.0	3.67	28.6	28.8	99.8	100	1	85.0-115			0.592	20

Method Blank (MB)

(MB) R4152372-3 11/30/24 22:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
2-Chloroethyl vinyl ether	U		0.000575	0.0500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
Methylene Chloride	U		0.000430	0.00500
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
Vinyl chloride	U		0.000234	0.00100
(S) Toluene-d8	*99.9*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.4*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4152372-1 11/30/24 21:30 • (LCSD) R4152372-2 11/30/24 21:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00459	0.00448	91.8	89.6	65.0-135			2.43	20
Bromodichloromethane	0.00500	0.00452	0.00456	90.4	91.2	65.0-135			0.881	20
Bromoform	0.00500	0.00519	0.00514	104	103	70.0-130			0.968	20
Bromomethane	0.00500	0.00361	0.00414	72.2	82.8	15.0-185			13.7	20
Carbon tetrachloride	0.00500	0.00623	0.00681	125	136	70.0-130		J4	8.90	20
Chlorobenzene	0.00500	0.00526	0.00540	105	108	65.0-135			2.63	20
Chlorodibromomethane	0.00500	0.00459	0.00443	91.8	88.6	70.0-135			3.55	20
Chloroethane	0.00500	0.00543	0.00600	109	120	40.0-160			9.97	20
2-Chloroethyl vinyl ether	0.0250	0.0293	0.0296	117	118	0.100-225			1.02	20
Chloroform	0.00500	0.00468	0.00455	93.6	91.0	70.0-135			2.82	20
Chloromethane	0.00500	0.00981	0.0104	196	208	0.100-205		J4	5.84	20
1,2-Dichlorobenzene	0.00500	0.00475	0.00492	95.0	98.4	65.0-135			3.52	20
1,3-Dichlorobenzene	0.00500	0.00496	0.00500	99.2	100	70.0-130			0.803	20
1,4-Dichlorobenzene	0.00500	0.00503	0.00499	101	99.8	65.0-135			0.798	20
Dichlorodifluoromethane	0.00500	0.00509	0.00555	102	111	49.0-155			8.65	20
1,1-Dichloroethane	0.00500	0.00474	0.00449	94.8	89.8	70.0-130			5.42	20
1,2-Dichloroethane	0.00500	0.00499	0.00467	99.8	93.4	70.0-130			6.63	20
1,1-Dichloroethene	0.00500	0.00486	0.00527	97.2	105	50.0-150			8.09	20
trans-1,2-Dichloroethene	0.00500	0.00441	0.00477	88.2	95.4	70.0-130			7.84	20
1,2-Dichloropropane	0.00500	0.00463	0.00474	92.6	94.8	35.0-165			2.35	20
cis-1,3-Dichloropropene	0.00500	0.00448	0.00445	89.6	89.0	25.0-175			0.672	20
trans-1,3-Dichloropropene	0.00500	0.00467	0.00458	93.4	91.6	50.0-150			1.95	20
Ethylbenzene	0.00500	0.00516	0.00544	103	109	60.0-140			5.28	20
Methylene Chloride	0.00500	0.00406	0.00459	81.2	91.8	60.0-140			12.3	20
Methyl tert-butyl ether	0.00500	0.00396	0.00388	79.2	77.6	64.0-123			2.04	20
Naphthalene	0.00500	0.00364	0.00368	72.8	73.6	62.0-128			1.09	20
1,1,2,2-Tetrachloroethane	0.00500	0.00468	0.00466	93.6	93.2	60.0-140			0.428	20
Tetrachloroethene	0.00500	0.00554	0.00589	111	118	70.0-130			6.12	20
Toluene	0.00500	0.00489	0.00509	97.8	102	70.0-130			4.01	20
1,1,1-Trichloroethane	0.00500	0.00532	0.00578	106	116	70.0-130			8.29	20
1,1,2-Trichloroethane	0.00500	0.00499	0.00475	99.8	95.0	70.0-130			4.93	20
Trichloroethene	0.00500	0.00490	0.00515	98.0	103	65.0-135			4.98	20
Trichlorofluoromethane	0.00500	0.00433	0.00493	86.6	98.6	50.0-150			13.0	20
Vinyl chloride	0.00500	0.00589	0.00640	118	128	5.00-195			8.30	20
(S) Toluene-d8				*100*	*100*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*103*	*80.0-120*				
(S) 1,2-Dichloroethane-d4				*111*	*103*	*70.0-130*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1,6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1,4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
EHS Support LLC - Pittsburgh, PA

4885 McKnight Road
#188
Pittsburgh, PA 15237

Billing Information:
Jonathan Waddell
4885 McKnight Road
#188
Pittsburgh, PA 15237

Pres Chk

Report to:
Molly Mulloy

Email To: **Molly.Mulloy@ehs-support.com;amanda.bayne@ehs-**

Project Description: DNI – Parrish, AL

City/State Collected: Parrish, AL

Please Circle: PT MT CT (ET)

Phone: 470-955-4972

Client Project # LLC.06117.0000

Lab Project # **EHSSUPPPA-PARRISH**

Collected by (print): Jonathan Waddell

Site/Facility ID # Parrish, AL

P.O. #

Collected by (signature):

Immediately
Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	624 VOCs 40mlAmb-HCl	BOD 500mlHDPE-NoPres	COD, NO2NO3 250mlHDPE-H2SO4	NH3 250mlHDPENaThioH2SO4	Oil and Grease 1L-Cr-WT-Hcl	PH 125mlHDPE-NoPres	Residual Chlorine 250mlHDPE-NoPres	TOC 250mlAmb-HCl	TSS 1L-HDPE NoPres	Total Phosphorus 250mlHDPE-H2SO4	Remarks	Sample # (lab only)
Outfall 001	Grab	WW	—	11/19/24	13:00	12	3	1	1	1	2	1	1	1	1	1		-01
Outfall 002	Grab	WW	—	11/19/24	12:15		3	1	1	1	2	1	1	1	1	1		-02
Outfall 003	Grab	WW	—	11/19/24	11:15		3	1	1	1	2	1	1	1	1	1		-03
		WW																

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1501909

Tab **G106**

Acctnum: **EHSSUPPPA**

Template: **T263820**

Prelogin: **P1114049**

PM: **942 - Jordan N Zito**

PB: **mV 11/13/24**

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS FedEx Courier

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCl / MeoH
TBR

Temp: °C Bottles Received: 36

Date: 11/20/24 Time: 9a

If preserv... Time

PH – 10BDH0941
TRC – 2352362

Hold: Condition: NCF / OK

Fed Ex tracking #	Gun ID	Temperature
4041 0494 1890	JWA-9	1.1 to 1.1
4041 0494 1904	1	1.5 to 1.5

Name

Date

Delegation of Signatory Authority

Directions for Use:

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

335-6-6-.09(2) [NPDES Permits]/335-6-5-.14(2) [State Indirect Discharge (SID) Permits]
All reports required by permits and other information requested by the Department shall be signed by a person described under paragraph 335-6-6-.09(1)/335-6-5-.14(1) or by a duly authorized representative of that person. **A person is a duly authorized representative only if:** (a) The authorization is made in writing by a person described in paragraph 335-6-6-.09(1)/335-6-5-.14(1); (b) The authorization specifies either an individual or a position **having responsibility for the overall operation of the regulated facility or activity** and; (c) The written authorization is submitted to the Department.

2. To sign this form as a Responsible Official, the person must be at a level of Vice President or higher, a Managing Member, a Partner, an Owner, or a Ranking Elected Official for the company/entity holding the permit or its parent company.
3. All information requested must be provided.

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

Name	Title/Position	Company/Organization	Phone	Email
Russel Lamont	Vice President, Sales and Commercial	Dyno Nobel, Inc.	629-241-1524	russell.lamont@am.dynonobel.com

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

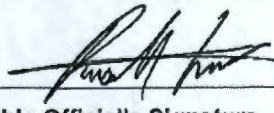
Name	Title/Position	Company/Organization	Phone	Email
Tyler Kelley	Environmental Coordinator	Dyno Nobel, Inc.	270-803-9828	tyler.kelley@am.dynonobel.com
Tina Maniatis	Sr. Environmental Director	Dyno Nobel, Inc.	801-922-0913	tina.maniatis@am.dynonobel.com

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

AL0083810 v1.0

D. Certification:

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



12/18/24

Responsible Official's Signature **Date Signed**

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