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Alabama Department of Environmental Management  
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MARCH 30, 2020

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MR ED GLASS  
SITE MANAGER  
DYNO NOBEL INC  
8425 HIGHWAY 269  
PARRISH AL 35580

RE: **REVISED DRAFT PERMIT**  
**NPDES PERMIT NUMBER: AL0083810**

Dear Mr. Glass:

Transmitted herein is a Revised 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.

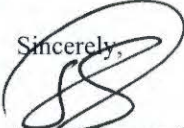
By copy of this letter and the Revised Draft permit, we are also requesting comments within the same time frame from EPA.

Please be aware that Part I.C.1.c of your permit requires that you apply for participation in the Department's web-based electronic environmental (E2) reporting system for submittal of DMRs immediately upon issuance of this permit unless valid justification as to why you cannot participate is submitted in writing. After issuance of the permit, hard copy DMRs may be used only with written approval from the Department. The E2 DMR system allows ADEM to electronically validate, acknowledge receipt, and upload data to the state's central wastewater database. This improves the accuracy of reported compliance data and reduces costs to both the regulated community and ADEM. The Permittee Participation Package may be downloaded online at <https://e2.adem.alabama.gov/npdes> or you may obtain a hard copy by submitting a written request or by e-mailing [e2admin@adem.alabama.gov](mailto:e2admin@adem.alabama.gov).

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

Should you have any questions, please contact Wayne Holt by e-mail at [WHolt@adem.alabama.gov](mailto:WHolt@adem.alabama.gov) or by phone at (334) 271-7847.

Sincerely,



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

Enclosure:  
pc via website:

Revised Draft Permit  
EPA Region IV  
U.S. Fish & Wildlife Service  
AL Historical Commission  
Advisory Council on Historic Preservation  
Department of Conservation and Natural Resources

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

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



Mobile Branch  
2204 Perimeter Road  
Mobile, AL 36615-1131  
(251) 450-3400  
(251) 479-2593 (FAX)

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



# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: DYNOL NOBEL INC

FACILITY LOCATION: 8425 HIGHWAY 269  
PARRISH, AL 35580

PERMIT NUMBER: AL0083810

RECEIVING WATERS: 001-003: UT 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:

## Revised Draft

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Alabama Department of Environmental Management

**INDUSTRIAL SECTION  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT**

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

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 following point source(s) outfall(s), described more fully in the permittee's application:

DSN001Q: Uncontaminated railcar condensate and industrial stormwater associated with blasting agents manufacturing. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Quarterly	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Oil & Grease	-	-	-	-	15 mg/l	Quarterly	Grab	-
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Toluene	-	-	-	-	8723 ug/l	Quarterly	Grab	-
Benzene	-	-	-	-	15.4 ug/l	Quarterly	Grab	-
Ethylbenzene	-	-	-	-	1244 ug/l	Quarterly	Grab	-

**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.

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 following point source(s) outfall(s), described more fully in the permittee's application:

DSN001Q (continued): Uncontaminated railcar condensate and industrial stormwater associated with blasting agents manufacturing. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Naphthalene	-	-	-	-	620 ug/l	Quarterly	Grab	-
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate	-
Xylene	-	-	-	-	REPORT ug/l	Quarterly	Grab	-

**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.

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 following point source(s) outfall(s), described more fully in the permittee's application:

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/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Temperature, Water Deg. Fahrenheit 5/	-	-	-	-	90 F	Quarterly	Grab	-
pH	-	-	REPORT S.U.	-	REPORT S.U.	Quarterly	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Oil & Grease	-	-	-	-	15 mg/l	Quarterly	Grab	-
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Phosphorus, Total (As P)	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Toluene	-	-	-	-	8723 ug/l	Quarterly	Grab	-
Benzene	-	-	-	-	15.4 ug/l	Quarterly	Grab	-

**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.

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 following point source(s) outfall(s), described more fully in the permittee's application:

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/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Ethylbenzene	-	-	-	-	1244 ug/l	Quarterly	Grab	-
Naphthalene	-	-	-	-	620 ug/l	Quarterly	Grab	-
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate 4/	-
Chlorine, Total Residual 5/ 6/	-	-	-	-	0.019 mg/l	Quarterly	Grab	-
Xylene	-	-	-	-	REPORT ug/l	Quarterly	Grab	-

**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 Chlorine 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

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 following point source(s) outfall(s), described more fully in the permittee's application:

DSN003Q: Industrial stormwater associated with blasting agents manufacturing. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Quarterly	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Oil & Grease	-	-	-	-	15 mg/l	Quarterly	Grab	-
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Toluene	-	-	-	-	8723 ug/l	Quarterly	Grab	-
Benzene	-	-	-	-	15.4 ug/l	Quarterly	Grab	-
Ethylbenzene	-	-	-	-	1244 ug/l	Quarterly	Grab	-
Naphthalene	-	-	-	-	620 ug/l	Quarterly	Grab	-

**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.



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 following point source(s) outfall(s), described more fully in the permittee's application:

DSN003Q (continued): Industrial stormwater associated with blasting agents manufacturing. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS 1/</u>			
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate 4/	-
Xylene	-	-	-	-	REPORT ug/l	Quarterly	Grab	-

**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.

## 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 by utilizing the Department's web-based Electronic Environmental (E2) Reporting System.

- (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's E2 Reporting 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 E2 Reporting System is down on the 28<sup>th</sup> 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 E2 Reporting System resuming operation, the permittee shall enter the data into the E2 Reporting System, unless an alternate timeframe is approved by the Department. An attachment should be included with the E2 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  
Permits and Services Division  
Environmental Data Section  
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  
Permits and Services Division  
Environmental Data Section  
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;
- (2) quantities to be used;
- (3) frequencies of use;
- (4) 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:
    - (a) one hundred micrograms per liter;
    - (b) 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;
    - (c) 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:
    - (a) five hundred micrograms per liter;
    - (b) one milligram per liter for antimony;
    - (c) ten times the maximum concentration value reported for that pollutant in the permit application.

3. Transfer of Permit

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

4. Permit Modification and Revocation

a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:

- (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
- (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
- (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.

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

- (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
- (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
- (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
- (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
- (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
- (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
- (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
- (8) To agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(a) of the FWPCA or for fundamentally different factors;
- (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
- (10) When required by the reopener conditions in this permit;
- (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
- (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
- (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
- (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

5. Permit Termination

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

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

6. Permit Suspension

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

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

The filing of a request by the permittee for modification, suspension or revocation of this permit, in whole or in part, does not stay any permit term or condition.

**F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION**

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the permittee and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit, or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition and the permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

**G. DISCHARGE OF WASTEWATER GENERATED BY OTHERS**

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

## PART III OTHER PERMIT CONDITIONS

### A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

2. False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

3. Permit Enforcement

a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.

b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes.

- (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
- (2) An action for damages;
- (3) An action for injunctive relief; or
- (4) An action for penalties.

c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:

- (1) initiate enforcement action based upon the permit which has been continued;
- (2) issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
- (3) reissue the new permit with appropriate conditions; or
- (4) take other actions authorized by these rules and AWPCA.

4. Relief from Liability

Except as provided in Provision II.C.1 (Bypass) and Provision II.C.2 (Upset), nothing in this permit shall be construed to relieve the permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

### B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

### C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, trespass, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

**D. AVAILABILITY OF REPORTS**

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

**E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES**

1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
3. Construction has begun when the owner or operator has:
  - a. begun, or caused to begin as part of a continuous on-site construction program:
    - (1) any placement, assembly, or installation of facilities or equipment; or
    - (2) significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
  - b. entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.

**F. COMPLIANCE WITH WATER QUALITY STANDARDS**

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

**G. GROUNDWATER**

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

**H. DEFINITIONS**

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

4. AWPCA - means the Alabama Water Pollution Control Act.
5. BOD – means the five-day measure of the pollutant parameter biochemical oxygen demand.
6. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.
7. CBOD – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. Daily discharge - means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
9. Daily maximum - means the highest value of any individual sample result obtained during a day.
10. Daily minimum - means the lowest value of any individual sample result obtained during a day.
11. Day - means any consecutive 24-hour period.
12. Department - means the Alabama Department of Environmental Management.
13. Director - means the Director of the Department.
14. Discharge - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other wastes into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(8).
15. Discharge Monitoring Report (DMR) - means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
16. DO – means dissolved oxygen.
17. 8HC – means 8-hour composite sample, including any of the following:
  - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
  - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
18. EPA - means the United States Environmental Protection Agency.
19. FC – means the pollutant parameter fecal coliform.
20. Flow – means the total volume of discharge in a 24-hour period.
21. FWPCA - means the Federal Water Pollution Control Act.
22. Geometric Mean – means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
23. Grab Sample – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
24. Indirect Discharger – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
25. Industrial User – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category “Division D – Manufacturing” and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
26. MGD – means million gallons per day.
27. Monthly Average – means, other than for fecal coliform bacteria, the arithmetic mean of the entire composite or grab samples taken for the daily discharges collected in one month period. The monthly average for fecal coliform bacteria is the geometric mean of daily discharge samples collected in a one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.

28. New Discharger – means a person, owning or operating any building, structure, facility or installation:
  - a. from which there is or may be a discharge of pollutants;
  - b. that did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and
  - c. which has never received a final effective NPDES permit for dischargers at that site.
29. NH3-N – means the pollutant parameter ammonia, measured as nitrogen.
30. Permit application - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
31. Point source - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
32. Pollutant - includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
33. Privately Owned Treatment Works – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
34. Publicly Owned Treatment Works – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
35. Receiving Stream – means the "waters" receiving a "discharge" from a "point source".
36. Severe property damage - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
37. Significant Source – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
38. Solvent – means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.
39. TKN – means the pollutant parameter Total Kjeldahl Nitrogen.
40. TON – means the pollutant parameter Total Organic Nitrogen.
41. TRC – means Total Residual Chlorine.
42. TSS – means the pollutant parameter Total Suspended Solids.
43. 24HC – means 24-hour composite sample, including any of the following:
  - a. the mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
  - b. a sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
  - c. a sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
44. Upset - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.



45. Waters - means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
46. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
47. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

**I. SEVERABILITY**

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

**PART IV      ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS**

**A.      BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS**

1.      BMP Plan

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

2.      Plan Content

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

- a.      Establish specific objectives for the control of pollutants:
  - (1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.
  - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g. precipitation), or circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- b.      Establish specific best management practices to meet the objectives identified under paragraph a. of this section, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented;
- c.      Establish a program to identify and repair leaking equipment items and damaged containment structures, which may contribute to contaminated stormwater runoff. This program must include regular visual inspections of equipment, containment structures and of the facility in general to ensure that the BMP is continually implemented and effective;
- d.      Prevent the spillage or loss of fluids, oil, grease, gasoline, etc. from vehicle and equipment maintenance activities and thereby prevent the contamination of stormwater from these substances;
- e.      Prevent or minimize stormwater contact with material stored on site;
- f.      Designate by position or name the person or persons responsible for the day to day implementation of the BMP;
- g.      Provide for routine inspections, on days during which the facility is manned, of any structures that function to prevent stormwater pollution or to remove pollutants from stormwater and of the facility in general to ensure that the BMP is continually implemented and effective;
- h.      Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;
- i.      Develop a solvent management plan, if solvents are used on site. The solvent management plan shall include as a minimum lists of the solvents on site; the disposal method of solvents used instead of dumping, such as reclamation, contract hauling; and the procedures for assuring that solvents do not routinely spill or leak into the stormwater;
- j.      Provide for the disposal of all used oils, hydraulic fluids, solvent degreasing material, etc. in accordance with good management practices and any applicable state or federal regulations;
- k.      Include a diagram of the facility showing the locations where stormwater exits the facility, the locations of any structure or other mechanisms intended to prevent pollution of stormwater or to remove pollutants from stormwater, the locations of any collection and handling systems;

- l. Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;
  - m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and shall prevent the contamination of groundwater. The containment system shall also be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided;
  - n. Provide and maintain curbing, diking or other means of isolating process areas to the extent necessary to allow segregation and collection for treatment of contaminated stormwater from process areas;
  - o. Be reviewed by plant engineering staff and the plant manager; and
  - p. Bear the signature of the plant manager.
3. Compliance Schedule
- The permittee shall have reviewed (and revised if necessary) and fully implemented the BMP plan as soon as practicable but no later than six months after the effective date of this permit.
4. Department Review
- a. When requested by the Director or his designee, the permittee shall make the BMP available for Department review.
  - b. The Director or his designee may notify the permittee at any time that the BMP is deficient and require correction of the deficiency.
  - c. The permittee shall correct any BMP deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.
5. Administrative Procedures
- a. A copy of the BMP shall be maintained at the facility and shall be available for inspection by representatives of the Department.
  - b. A log of the routine inspection required above shall be maintained at the facility and shall be available for inspection by representatives of the Department. The log shall contain records of all inspections performed for the last three years and each entry shall be signed by the person performing the inspection.
  - c. The permittee shall provide training for any personnel required to implement the BMP and shall retain documentation of such training at the facility. This documentation shall be available for inspection by representatives of the Department. Training shall be performed prior to the date that implementation of the BMP is required.
  - d. BMP Plan Modification. The permittee shall amend the BMP plan whenever there is a change in the facility or change in operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
  - e. BMP Plan Review. The permittee shall complete a review and evaluation of the BMP plan at least once every three years from the date of preparation of the BMP plan. Documentation of the BMP Plan review and evaluation shall be signed and dated by the Plant Manager.

**B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS**

1. Stormwater Flow Measurement
  - a. All stormwater samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches.
  - b. The total volume of stormwater discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for storm event(s) sampled. The duration between the storm

event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

- c. The volume may be measured using flow measuring devices, or estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a stormwater outfall, and an estimate of the runoff coefficient of the drainage area. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

2. Stormwater Sampling

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

ADEM PERMIT RATIONALE

PREPARED DATE: February 3, 2020  
PREPARED BY: Wayne Holt  
REVISION DATE: March 27, 2020  
REVISED BY: Wayne Holt  
REVISION DATE: April 23, 2020  
REVISED BY: Wayne Holt

Permittee Name: Dyno Nobel Inc  
Facility Name: Dyno Nobel Inc  
Permit Number: AL0083810

PERMIT IS INITIAL ISSUANCE

DISCHARGE SERIAL NUMBERS & DESCRIPTIONS:

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

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.

DSN003: Industrial stormwater associated with blasting agents manufacturing.

INDUSTRIAL CATEGORY: NON-CATEGORICAL

MAJOR: N

STREAM INFORMATION:

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

DISCUSSION:

The facility manufactures blasting agents and distributes and stores commercial explosives.

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 for discharges to a Tier II water body that began after April 3, 1991, the date the amended ADEM regulation 335-6-10-.04 was promulgated. Therefore, anti-degradation requirements apply. An anti-degradation evaluation is attached.

40 CFR 457 provides Federal Guidelines for process wastewaters associated with the manufacture of explosives.

The application states 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.

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, an evaluation of similar facilities, and the NPDES General permit for petroleum products, ALG340000.

**DSN001Q:**

<b><u>Parameter</u></b>	<b><u>Monthly Avg Loading</u></b>	<b><u>Daily Max Loading</u></b>	<b><u>Daily Min Concentration</u></b>	<b><u>Monthly Avg Concentration</u></b>	<b><u>Daily Max Concentration</u></b>	<b><u>Sample Frequency</u></b>	<b><u>Sample Type</u></b>	<b><u>Basis*</u></b>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Quarterly	Grab	BPJ
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Oil & Grease	-	-	-	-	15 mg/l	Quarterly	Grab	BPJ
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Toluene	-	-	-	-	8723 ug/l	Quarterly	Grab	WQBEL
Benzene	-	-	-	-	15.4 ug/l	Quarterly	Grab	WQBEL
Ethylbenzene	-	-	-	-	1244 ug/l	Quarterly	Grab	WQBEL
Naphthalene	-	-	-	-	620 ug/l	Quarterly	Grab	WQBEL
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate	BPJ
Xylene	-	-	-	-	REPORT ug/l	Quarterly	Grab	BPJ
pH	-	-	REPORT S.U.	-	REPORT S.U.	Quarterly	Grab	BPJ

**DSN002Q:**

<b><u>Parameter</u></b>	<b><u>Monthly Avg Loading</u></b>	<b><u>Daily Max Loading</u></b>	<b><u>Daily Min Concentration</u></b>	<b><u>Monthly Avg Concentration</u></b>	<b><u>Daily Max Concentration</u></b>	<b><u>Sample Frequency</u></b>	<b><u>Sample Type</u></b>	<b><u>Basis*</u></b>
Temperature, Water Deg. Fahrenheit	-	-	-	-	90 F	Quarterly	Grab	WQBEL
pH	-	-	REPORT S.U.	-	REPORT S.U.	Quarterly	Grab	BPJ
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Oil & Grease	-	-	-	-	15 mg/l	Quarterly	Grab	BPJ
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Phosphorus, Total (As P)	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Toluene	-	-	-	-	8723 ug/l	Quarterly	Grab	WQBEL
Benzene	-	-	-	-	15.4 ug/l	Quarterly	Grab	WQBEL
Ethylbenzene	-	-	-	-	1244 ug/l	Quarterly	Grab	WQBEL
Naphthalene	-	-	-	-	620 ug/l	Quarterly	Grab	WQBEL
Flow, In Conduit or Thru	-	REPORT MGD	-	-	-	Quarterly	Estimate	BPJ

Treatment Plant								
Chlorine, Total Residual	-	-	-	-	.019 mg/l	Quarterly	Grab	BPJ
Xylene	-	-	-	-	REPORT ug/l	Quarterly	Grab	BPJ
pH	-	-	REPORT S.U.	-	REPORT S.U.	Quarterly	Grab	BPJ

**003Q:**

<b>Parameter</b>	<b><u>Monthly Avg Loading</u></b>	<b><u>Daily Max Loading</u></b>	<b><u>Daily Min Concentration</u></b>	<b><u>Monthly Avg Concentration</u></b>	<b><u>Daily Max Concentration</u></b>	<b><u>Sample Frequency</u></b>	<b><u>Sample Type</u></b>	<b><u>Basis*</u></b>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Quarterly	Grab	BPJ
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Oil & Grease	-	-	-	-	15 mg/l	Quarterly	Grab	BPJ
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Toluene	-	-	-	-	8723 ug/l	Quarterly	Grab	WQBEL
Benzene	-	-	-	-	15.5 ug/l	Quarterly	Grab	WQBEL
Ethylbenzene	-	-	-	-	1244 ug/l	Quarterly	Grab	WQBEL
Naphthalene	-	-	-	-	620 ug/l	Quarterly	Grab	WQBEL
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate	BPJ
Xylene	-	-	-	-	REPORT ug/l	Quarterly	Grab	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.

**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.

#### 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, and Toluene

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.

**March 27, 2020 Revisions:**

The following revisions to the proposed permit are being made based on comments from the facility:

- 1) The description for DSN001 will be permitted for uncontaminated railcar condensate and industrial stormwater only.
- 2) Internal outfalls DSN01A and DSN02A are proposed to be removed.
- 3) Instead of internal outfall DSN02A, monitoring for Temperature and Total Residual Chlorine are proposed to be monitored at DSN002 during non-stormwater events.

**April 26, 2020 Revisions:**

Based on facility comments, the below administrative corrections were made to the permit and rationale.

- 1.) Permit Part I - Page 4 of 25 will include the following statement under the parameters as identified on page 6 of the Rationale:
  - 6/ A measurement of Total Residual Chlorine 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.
- 2.) ADEM Permit Rationale - page 1. DSN001 listed process descriptions from the original draft permit. This area only has the railcar condensate and industrial stormwater.
- 3.) ADEM Permit Rationale - PDF page 9. DSN001 listed phosphorus as a parameter. Phosphorus only applies at DSN002.

## ANTIDEGRADATION RATIONALE

**Permit Number:** AL0083810  
**Facility Name:** Dyno Nobel Inc  
**Receiving water:** UT to Bryants Creek in Warrior River Basin  
**Stream Category:** Tier 2 as defined by ADEM Admin. Code 335-6-10-.12  
**Discharge Description:**

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

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.

DSN003: Industrial stormwater associated with blasting agents manufacturing.

**The following preliminary determination was prepared in accordance with ADEM Admin. Code 335-6-10-.12 (7) (c):**

The Department has reviewed the information submitted by applicant in accordance with ADEM Admin. Code 335-6-10-.12 (9). The applicant has demonstrated that there are no alternative options which are economically feasible or technically viable. In the case of technically viable options, the applicant has shown them to be cost prohibitive through the alternatives analysis required by the permit application.

The permit applicant has indicated that the following economic and/or social benefits will result from the issuance of this permit:

- The facility has hired 42 employees at this location. The positions are drivers, blasters, service technicians, and office personnel.
- The facility expects to pay between \$26,000.00 and \$30,000.00 in additional state and local taxes.
- The company will be adding jobs to the local community through businesses using their product (blasting agents) in mining, construction, and demolition industries in the local area.

The Department has determined that the discharge as proposed by the permit applicant is necessary for important economic and social development in the area in which the receiving water is located.

**Prepared By:** Scott Ramsey  
**Date:** April 23, 2020

Wayne Holt  
Alabama Department of Environmental Management  
Industrial Section  
Industrial/Municipal Branch  
Water Division  
Post Office Box 301463  
Montgomery, Alabama 36130

DYNO NOBEL INC.  
A business of Incitec Pivot Limited  
660 Hopmeadow Street  
Simsbury, Connecticut  
06070 USA

Date March 2, 2020

**Re: Draft NPDES Permit AL0083810**

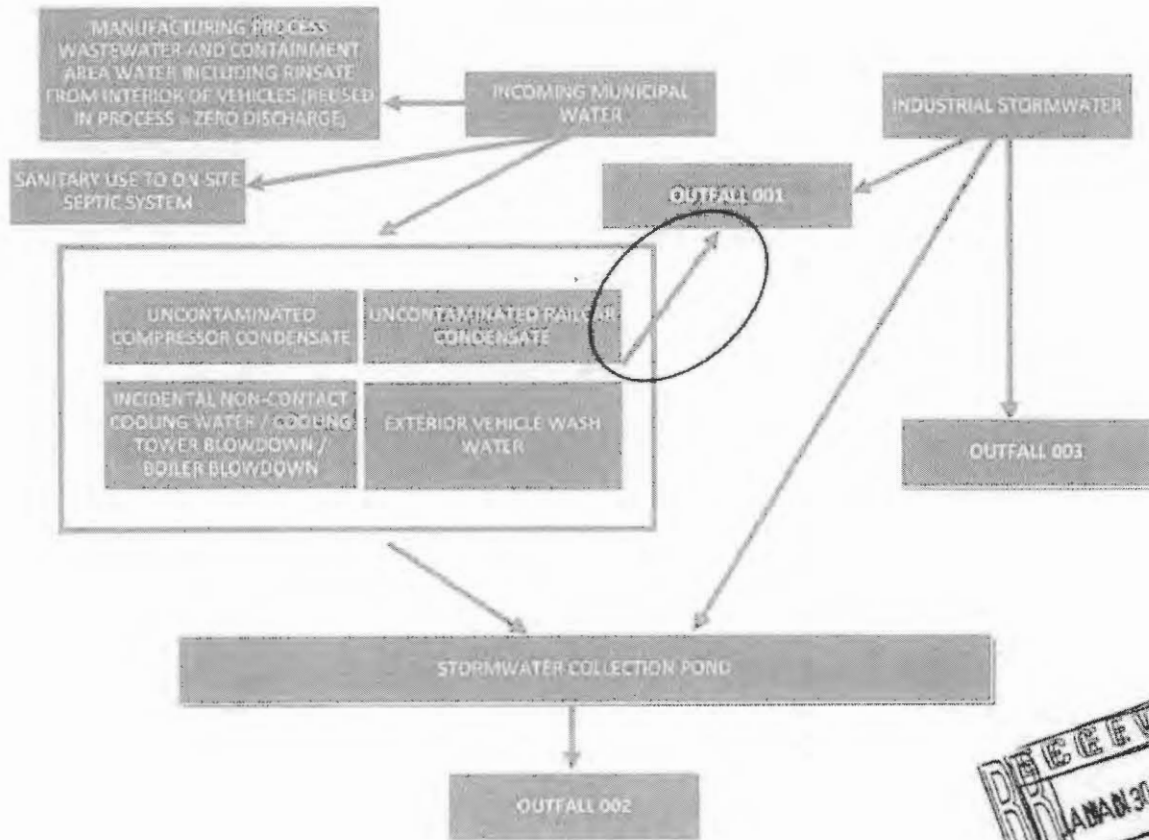
Dear Mr. Holt,

Please see my comments regarding the Draft NPDES Permit for the Dyno Nobel – Parish Plant:

Cover Letter – Replace Ed Glass as the site manager.

1. Page 1 of 29
  - a. Revise DSN001Q. Effluent consists of uncontaminated railcar condensate and industrial stormwater. See attached Process Flow Schematic.
  - b. Request removal of monitoring for phosphorus at DSN001Q as it's not applicable with industrial activities.
2. Page 2 of 29
  - a. Revise DSN001Q. See item 1a.
3. Page 7 of 29
  - a. Request removal of internal outfall DSN01AQ. There is no discernable flow of railcar condensate during non-stormwater events for an internal outfall. External outfall DSN001Q is monitoring effluent from drainage area. See item 1a.
4. Page 8 of 29
  - a. See item 3a.

Form 187 - Figure 1  
Process Flow Schematic



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INDUSTRIAL BRANCH

5. Page 9 of 29

- a. Request removal of internal outfall DSN02AQ. Include Temperature and Chlorine with effluent parameters in external outfall DSN002Q, which is monitoring effluent from drainage area. Note that Nelson Brothers NPDES Permit AL0066265 does not have an internal outfall associated with discharging boiler blowdown for their outfall DSN001Q.

6. Page 10 of 29

- a. See item 5a.

Please feel free to contact me directly with any questions or concerns.

Regards



Chris Stek  
Environmental Manager  
Phone: 860-408-1933  
e-mail: [chris.stek@am.dynonobel.com](mailto:chris.stek@am.dynonobel.com)

**Dyno Nobel Americas**

**DYNO**  
**Dyno Nobel**

Wayne Holt  
Alabama Department of Environmental Management  
Industrial Section  
Industrial/Municipal Branch  
Water Division  
Post Office Box 301463  
Montgomery, Alabama 36130

DYNO NOBEL INC.  
A business of Incitec Pivot Limited  
660 Hopmeadow Street  
Simsbury, Connecticut  
06070 USA

**Date** March 12, 2020

**Re: Draft NPDES Permit AL0083810**

Dear Mr. Holt,

Please see my additional comment regarding the Draft NPDES Permit for the Dyno Nobel – Parish Plant:

Part II - Other Requirements, Responsibilities and Duties  
Page 17 of 29, A (3.)

Secondary containment systems are provided for aboveground storage tanks, however two of the containment systems are not capable of retaining a volume equal to 110 percent capacity of the largest tank.

One of the emulsion plant fuel containment systems has four aboveground storage tanks with the largest tank capacity consisting of 10,000-gallons. To correct the issue, the largest tank is currently no longer in-service and shall be removed, allowing the containment to properly accommodate for the second largest tank having an 8,000-gallon capacity. Due to overhead power lines along with tank configuration, part of the containment wall must be taken down for tank removal, followed by rebuilding and sealing of the containment. Persistent heavy rainfall in this region is hindering containment repair work.

The second containment system at the ANFO plant has one fuel tank that is oversized for the containment. To correct the issue, a double-walled tank has been provided from the fuel supplier to discontinue use of the tank inside the containment. The double-walled tank shall be placed into service once the transfer pump and plumbing are installed.

DNI is aware of the requirements associated with Spill Prevention, Control and Management and is requesting a 90-day extension from finalization of the permit to comply with the 110 percent capacity. Additional control measures have been put in place until these issues are corrected.

Groundbreaking Performance



**DYNO**  
Dyno Nobel

Please feel free to contact me directly with any questions or concerns.

Regards



Chris Stek  
Environmental Manager  
Phone: 860-408-1933  
e-mail: [chris.stek@am.dynonobel.com](mailto:chris.stek@am.dynonobel.com)

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

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

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

**PURPOSE OF THIS APPLICATION**

- Initial Permit Application for New Facility\*       Initial Permit Application for Existing Facility\*  
 Modification of Existing Permit                       Reissuance of Existing Permit  
 Revocation & Reissuance of Existing Permit      \* An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required.

**SECTION A – GENERAL INFORMATION**

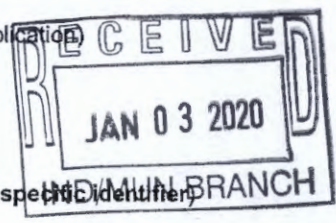
1. Facility Name: Dyno Nobel Inc.  
a. Operator Name: Dyno Nobel Inc.  
b. Is the operator identified in A.1.a, the owner of the facility?     Yes     No  
If no, provide name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.

2. NPDES Permit Number: AL 0083810 (not applicable if initial permit application)

3. SID Permit Number (if applicable): IU \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

4. NPDES General Permit Number (if applicable): ALG \_\_\_\_\_

5. Facility Physical Location: (Attach a map with location marked; street, route no. or other specific identifier)  
Street: 8425 Highway 269



City: Parrish County: Walker State: AL Zip: 35580

Facility Location (Front Gate): Latitude: 33°42'45.72"N Longitude: 87°15'54.15"W

6. Facility Mailing Address: 8425 Highway 269

City: Parrish County: Walker State: AL Zip: 35580

7. Responsible Official (as described on the last page of this application):  
Name and Title: Ed Glass, Site Manager

Address: 8425 Highway 269

City: Parrish State: AL Zip: 35580

Phone Number: 205-686-5095 Email Address: ed.glass@am.dynonobel.com

8. Designated Facility Contact:  
Name and Title: Chris Stek

Phone Number: 860-408-1933 Email Address: chris.stek@am.dynonobel.com

9. Designated Discharge Monitoring Report (DMR) Contact:

Name and Title: Chris Stek  
Phone Number: 860-408-1933 Email Address: chris.stek@am.dynonobel.com

10. Type of Business Entity:

Corporation  General Partnership  Limited Partnership  Limited Liability Company  Sole Proprietorship  
 Other (Please Specify) \_\_\_\_\_

11. Complete this section if the Applicant's business entity is a Corporation

a) Location of Incorporation:

Address: 2795 East Cottonwood Parkway, Suite 500  
City: Salt Lake City County: \_\_\_\_\_ State: UT Zip: 84121

b) Parent Corporation of Applicant:

Name: Incitec Pivot Limited  
Address: Level 8, 28 Freshwater Place  
City: Southbank State: Victoria, Australia Zip: 3006

c) Subsidiary Corporation(s) of Applicant:

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

d) Corporate Officers:

Name: Fred Jardinico, Senior Director / Environment  
Address: 2795 East Cottonwood Parkway, Suite 500  
City: Salt Lake City State: UT Zip: 84121

Name: Jeffrey Droubay, SVP Legal and Business Affairs  
Address: 2795 East Cottonwood Parkway, Suite 500  
City: Salt Lake City State: UT Zip: 84121

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

Name: N/A  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

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

Name: N/A Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

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

Name: N/A

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

14. Permit numbers for Applicant's previously issued NPDES Permits and identification of any other State of Alabama Environmental Permits presently held by the Applicant, its parent corporation, or subsidiary corporations within the State of Alabama:

<u>Permit Name</u>	<u>Permit Number</u>	<u>Held By</u>
N/A		

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

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
N/A			

**SECTION B – BUSINESS ACTIVITY**

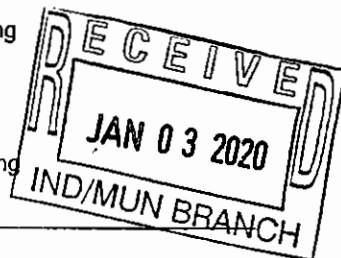
1. Indicate applicable Standard Industrial Classification (SIC) Codes for all processes. If more than one applies, list in order of importance:

- a. 2892
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

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

**Industrial Categories**

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



A facility with processes inclusive in these business areas may be covered by Environmental Protection (EPA) categorical standards. These facilities are termed "categorical users" and should skip to question 2 of Section C.

3. Give a brief description of all operations at this facility including primary products or services (attach additional sheets if necessary):

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 as described in Section C is discharged.

**SECTION C -- WASTEWATER DISCHARGE INFORMATION**

Facilities that checked activities in B.2 and are considered Categorical Industrial Users should skip to C.2 of this section.

1. **For Non-Categorical Users Only:** Provide wastewater flows for each of the processes or proposed processes. Using the process flow schematic (Figure 1), enter the description that corresponds to each process. (The flow schematic should include all treatment units as well as monitoring and discharge points). [New facilities should provide estimates for each discharge.]

Process Description	Last 12 Months (gals/day)	Highest Flow Year of Last 5 (gals/day)	Discharge Type (batch, continuous, intermittent)
	Highest Month Avg. Flow	Monthly Avg. Flow	
Boiler blowdown	23	23	Intermittent
Incidental NCCW / cooling tower blowdown	25	25	Intermittent
Exterior vehicle wash water	500	500	Intermittent
Compressor condensate	0.25	0.25	Intermittent
Railcar condensate	1800	1800	Intermittent

If batch discharge occurs or will occur, indicate: [new facilities may estimate.]

- a. Number of batch discharges: \_\_\_\_\_ per day
- b. Average discharge per batch: \_\_\_\_\_ (GPD)
- c. Time of batch discharges \_\_\_\_\_ at \_\_\_\_\_  
(days of week) (hours of day)
- d. Flow rate: \_\_\_\_\_ gallons/minute
- e. Percent of total discharge: \_\_\_\_\_

Non-Process Discharges (e.g. non-contact cooling water)	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow
_____	_____	_____
_____	_____	_____

2. Complete this Section only if you are subject to Categorical Standards and plan to directly discharge the associated wastewater to a water of the State. If Categorical wastewater is discharged exclusively via an indirect discharge to a public or privately-owned treatment works, check "Yes" in the appropriate space below and proceed directly to part 2.c.

Yes

For Categorical Users: Provide the wastewater discharge flows or production (whichever is applicable by the effluent guidelines) for each of your processes or proposed processes. Using the process flow schematic (Figure 1, pg 14), enter the description that corresponds to each process. [New facilities should provide estimates for each discharge.]

2a.

Regulated Process	Applicable Category	Applicable Subpart	Type of Discharge Flow (batch, continuous, intermittent)
_____	_____	_____	_____
_____	_____	_____	_____

2b.

Process Description	Last 12 Months (gals/day), (lbs/day), etc. Highest Month Average*	Highest Flow Year of Last 5 (gals/day), (lbs/day), etc. Monthly Average*	Discharge Type (batch, continuous, intermittent)
_____	_____	_____	_____
_____	_____	_____	_____

\* Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc.

If batch discharge occurs or will occur, indicate: [new facilities may estimate.]

- a. Number of batch discharges: \_\_\_\_\_ per day
- b. Average discharge per batch: \_\_\_\_\_ (GPD)
- c. Time of batch discharges \_\_\_\_\_ at \_\_\_\_\_  
(days of week) (hours of day)
- d. Flow rate: \_\_\_\_\_ gallons/minute
- e. Percent of total discharge: \_\_\_\_\_

2c.

Non categorical Process Description	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	Discharge Type (batch, continuous, intermittent)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

If batch discharge occurs or will occur, indicate: [new facilities may estimate.]

- a. Number of batch discharges: \_\_\_\_\_ per day
- b. Average discharge per batch: \_\_\_\_\_ (GPD)
- c. Time of batch discharges \_\_\_\_\_ at \_\_\_\_\_  
(days of week) (hours of day)
- d. Flow rate: \_\_\_\_\_ gallons/minute
- e. Percent of total discharge: \_\_\_\_\_

2d.

Non-Process Discharges (e.g. non-contact cooling water)	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow
_____	_____	_____
_____	_____	_____

All Applicants must complete C.3 – C.6.

3. Do you share an outfall with another facility?  Yes  No (If no, continue to C.4)  
For each shared outfall, provide the following:

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

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

- |          |                    |                              |                             |   |
|----------|--------------------|------------------------------|-----------------------------|---|
| Current: | Flow Metering      | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
|          | Sampling Equipment | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| Planned: | Flow Metering      | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
|          | Sampling Equipment | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |

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

\_\_\_\_\_

5. Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics?  
 Yes  No (if no, continue to C.6)

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

\_\_\_\_\_

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

Trade Name	Chemical Composition
Southwest Engineers MIT-1022	Alkalinity builder (see attached SDS)
Southwest Engineers SWE-5041	Boiler treatment (see attached SDS)

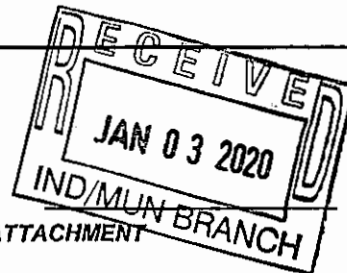
For each biocide and/or corrosion inhibitor used, please include the following information:

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

**SECTION D – WATER SUPPLY**

Water Sources (check as many as are applicable):

- Private Well
  Surface Water  
 Municipal Water Utility (Specify City):
  Other (Specify):



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

City: \_\_\_\_\_ MGD\* Well: \_\_\_\_\_ MGD\* Well Depth: \_\_\_\_\_ Ft. Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Surface Intake Volume: \_\_\_\_\_ MGD\* Intake Elevation in Relation to Bottom: \_\_\_\_\_ Ft.

Intake Elevation: \_\_\_\_\_ Ft. Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Name of Surface Water Source: \_\_\_\_\_

\* MGD – Million Gallons per Day

**Cooling Water Intake Structure Information**

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

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

a) Name of Provider: Parrish Water Works b) Location of Provider: 1275 Main Drive, Parrish, Alabama 35580

c) Latitude: 33.730443 Longitude: -87.283631

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

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

3. Is any water withdrawn from the source water used for cooling?  Yes  No
4. Using the average monthly measurements over any 12-month period, approximately what percentage of water withdrawn is used exclusively for cooling purposes? \_\_\_\_\_ %
5. Does the cooling water consist of treated effluent that would otherwise be discharged?  Yes  No  
 (If yes, go to Section E, if no, complete D.6 – D.17)
6. a. Is the cooling water used in a once-through cooling system?  Yes  No
- b. Is the cooling water used in a closed cycle cooling system?  Yes  No



7. When was the intake installed? \_\_\_\_\_  
(Please provide dates for all major construction/installation of intake components including screens)
8. What is the maximum intake volume? \_\_\_\_\_  
(maximum pumping capacity in gallons per day)
9. What is the average intake volume? \_\_\_\_\_  
(average intake pump rate in gallons per day average in any 30-day period)
10. What is the actual Intake flow (AIF) as defined in 40 CFR §125.92(a)? \_\_\_\_\_ MGD
11. How is the intake operated? (e.g., continuously, Intermittently, batch) \_\_\_\_\_
12. What is the mesh size of the screen on your intake? \_\_\_\_\_
13. What is the intake screen flow-through area? \_\_\_\_\_
14. What is the through-screen design intake flow velocity? \_\_\_\_\_ ft/sec
15. What is the through-screen actual velocity (in ft/sec)? \_\_\_\_\_ ft/sec
16. What is the mechanism for cleaning the screen? (e.g., does it rotate for cleaning) \_\_\_\_\_
17. Do you have any additional fish detraction technology on your intake?  Yes  No
18. Have there been any studies to determine the impact of the intake on aquatic organisms?  Yes  No (If yes, please provide.)
19. Attach a site map showing the location of the water intake in relation to the facility, shoreline, water depth, etc.

**SECTION E – WASTE STORAGE AND DISPOSAL INFORMATION**

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

Description of Waste	Description of Storage Location
See attached supplementary information	Figures 3a, 3b, 3c

Provide a description of the location of the ultimate disposal sites of solid or liquid waste by-products (such as sludges) from any wastewater treatment system located at the facility.

Description of Waste	Quantity (lbs/day)	Disposal Method*
N/A		

\*Indicate which wastes identified above are disposed of at an off-site treatment facility and which are disposed of on-site. If any wastes are sent to an off-site centralized waste treatment facility, identify the waste and the facility.

**SECTION F – COASTAL ZONE INFORMATION**

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

- |   | Yes                      | No                       |
|---|--------------------------|--------------------------|
| 1. Does the project require new construction? .....         | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Will the project be a source of new air emissions? ..... | <input type="checkbox"/> | <input type="checkbox"/> |

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

**SECTION G – ANTI-DEGRADATION EVALUATION**

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

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

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

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

- What environmental or public health problem will the discharger be correcting?  
Sample and perform testing on storm water runoff per our permit requirements. Results will be submitted per the eDMR system.
- How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?  
Hired 42 employees at this location. Positions are drivers, blasters, service technicians, plant operators and office personnel.
- How much reduction in employment will the discharger be avoiding?  
Don't expect to reduce the work force. Out object is to increase sales and services therefore increase employment opportunities.
- How much additional state or local taxes will the discharger be paying?  
Based on similar operations, between \$26,000 to \$30,000.
- What public service to the community will the discharger be providing?  
Adding jobs to local community. Products allow jobs to be created in mining, construction and demolition industries in the local area.
- What economic or social benefit will the discharger be providing to the community?  
Hiring local people to work at the facility. Purchasing materials from the local communities to support the operation.

**SECTION H – EPA Application Forms**

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

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

**SECTION I – ENGINEERING REPORT/BMP PLAN REQUIREMENTS**

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

**SECTION J – RECEIVING WATERS**

Outfall No.	Receiving Water(s)	303(d) Segment?		Included in TMDL?*	
001	Tributary to Bryants Creek	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
002	Tributary to Bryants Creek	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
003	Tributary to Bryants Creek	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

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

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

**SECTION K – APPLICATION CERTIFICATION**

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

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

Signature of Responsible Official: Ed Glass Date Signed: 12/23/2019  
Name and Title: Ed Glass, Site Manager

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

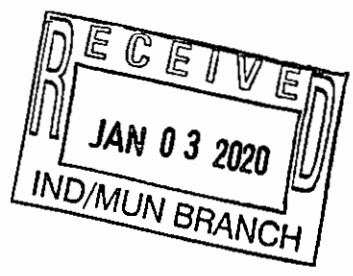
Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

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

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
  - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
  - (b) In the case of a partnership, by a general partner;
  - (c) In the case of a sole proprietorship, by the proprietor; or
  - (d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.





## Form 187 – Supplementary Information

### SECTION B – BUSINESS ACTIVITY

The Dyno Nobel facility is located at 8426 Highway 269 in Parrish, Walker County, Alabama (Figure 2). Dyno Nobel conducts blasting agent manufacturing, distribution, and storage of commercial explosives. The facility is comprised of three primary areas:

- Area 1: Designated as the Blasting Agent Manufacturing Area (east of Highway 269), the facility conducts blasting agent manufacturing solely on this parcel in the ANFO Plant and Emulsion Plant (Area 1); the parcel has multiple buildings and structures. The parcel extends to the west of Highway 269 and is the entrance to, and part of, the former surface mining property (Area 2) and also has a tributary to Bryants Creek. An active railroad/spur is located on this parcel to the east of Highway 269. (Figure 3a)
- Area 2: Former surface mining parcel with tractor trailer storage; tributary to Bryant's Creek; dirt road; and powerline. (Figure 3c)
- Area 3: To the southwest of the manufacturing area, unpaved, dirt road and several unpaved, temporary storage site locations for storage of product and raw material in bins, tankers, and tractor trailers. (Figure 3b)

No point source water discharges were identified on Areas 2 and 3; all outfalls are located on Area 1.

The facility can manufacture up to 200,000 to 300,000 pounds each of emulsion and ammonium nitrate and fuel oil (ANFO) per day. The facility divides its primary operations into two areas: ANFO Plant and Emulsion Plant. The primary difference between the two plants is the ANFO Plant uses solid ammonium nitrate and the Emulsion Plant uses liquid ammonium nitrate, but both are manufactured as blasting agents.

ANFO the blasting agent manufactured and distributed to Dyno Nobel customers and it is a simple mixture of ammonium nitrate and fuel oil. Ammonium nitrate is an oxidizing agent that supplies oxygen to support the combustion of a fuel; it can also become an explosive substance in certain conditions (e.g., contact with some organic materials such as acetic acid).

Dyno Nobel uses ammonium nitrate prill delivered to its ANFO Plant, adding the diesel fuel as offloaded, and then stores the ANFO in a bin for distribution. Industrial grade ammonium nitrate prills are specifically designed to be used as a solid oxidizer ingredient for explosive compositions such as ANFO. They are small-sized, low-moisture content, non-setting, porous spheres (prills) which are a lower density than agricultural grade ammonium nitrate used for fertilizer.

At the Emulsion Plant, the facility offloads ammonium nitrate solution, which is temporarily stored in tanks, until the diesel mixture is added, to manufacture the ammonium nitrate emulsion. An emulsion is a mixture of two or more liquids that are normally immiscible (unmixable). Nitric acid, acetic acid, and NL3 are stored on-site and added to the product formulation in small quantities as needed. Nitric acid is for pH adjustment, and acetic acid and NL3 are gassing chemicals blended with emulsion while loading bore holes at a customer site. The facility has a separate storage area for fuel containing an emulsifier for blending its product (i.e., emulsifier blend tank, N-59 fuel phase, N-11A off road diesel fuel). Gassing agents added to explosives can alter the density of the emulsion-blend products.



The facility receives products by a common carrier via tank, delivery trucks, and ammonium nitrate prill and solution via rail bins and tankers, respectively. Products are stored in bins, tanks, and explosives magazines. Products are then distributed to customers. An inventory of chemical storage is provided in Section E.

The primary materials used at the site include ammonium nitrate prill and solution, diesel, gasoline, nitric acid, acetic acid, diesel fuel emulsifier, and limited quantities of maintenance-related materials, such as welding gases, oils, lubricants, and greases.

#### SECTION D – WATER SUPPLY

Municipal Water Utility (Specify City): Parrish Water Works, 1275 Main Drive, Parrish, Alabama 35580

#### SECTION E – WASTE STORAGE AND DISPOSAL INFORMATION

Description of Substance	Description of Storage Location	Figure 3 Map ID
ANFO (prilled ammonium nitrate/fuel oil)	ANFO Bin #1 North of ANFO Plant	1
	ANFO Bin #3 North of ANFO Plant	1
	ANFO Bin #2 on Hill to North of Manufacturing Area	2
Prilled ammonium nitrate	Rail Boxcar North of ANFO Plant on Rail Spur	1
Emulsion	Emulsion Bin #4 on Hill North of the Manufacturing Area	2
	Emulsion Bins #3a and #3b, and #5 to South of Emulsion Plant	3
	Totes in Emulsion Solution Storage Tank Farm East of Emulsion Plant <sup>a</sup>	3
	Totes, Mixing Trucks, Tankers on Sites	6, 7
Emulsifier (oil mixture)	N-59-2-H Tank in Emulsion Plant Fuel Tank Farm <sup>a</sup>	4
	N-59-1-V Tank in Emulsion Plant Fuel Tank Farm <sup>a</sup>	4
Diesel	Boiler Tank in Emulsion Plant Fuel Tank Farm <sup>a</sup>	4
	N-11A H0/C1 Tank Containment Area Next to Emulsion Plant Fuel Tank Farm <sup>a</sup>	4
	On Road Diesel Tank Near Fuel Pumps <sup>b</sup>	5
	ANFO Diesel Fuel Tank Off Northeast Corner of ANFO Plant <sup>a</sup>	1
	Emergency Generator West of the Emulsion Plant <sup>b</sup>	3
	Temporarily Closed Diesel Tank	8
Gasoline	On Road Gasoline Tank Near Fuel Pumps <sup>b</sup>	5
Nitric Acid	Nitric Acid Tank North of Emulsion Plant <sup>a</sup>	3



Description of Substance	Description of Storage Location	Figure 3 Map ID
Used motor oil	Used Oil Tank South of Break Room of ANFO Plant <sup>a</sup>	1
Ammonium nitrate solution	ANSOL Tank in Emulsion Solution Storage Tank Farm East of Emulsion Plant <sup>a</sup>	3
	ANSOL Tank in Emulsion Solution Storage Tank Farm East of Emulsion Plant <sup>a</sup>	3
	Railcars to North of Emulsion Plant on Rail Spur	3
Antifreeze	Antifreeze Tank in Emulsion Solution Storage Tank Farm East of Emulsion Plant <sup>a</sup>	3
Q-Cell	Cardboard boxes in Emulsion Plant and ANFO Plant Buildings	1, 3, 7
Acetic acid	Tote in Emulsion Solution Storage Tank Farm East of Emulsion Plant <sup>a</sup>	3
Nitrogen triiodide (NI3)	Totes in Emulsion Solution Storage Tank Farm East of Emulsion Plant <sup>a</sup>	3
Motor oil, hydraulic oil	Less than 5-gallon containers and 55-gallon drum in ANFO Plant – Shop Area in Building	1
Safety-Kleen Immersion Cleaner and Cold Parts Washer	Parts Washers in ANFO Plant – Shop Area in Building	1

<sup>a</sup> Within concrete dike

<sup>b</sup> Double wall tank

#### Map ID

1 = ANFO Plant (Area 1)

2 = Hill North of Manufacturing Area (Area 1)

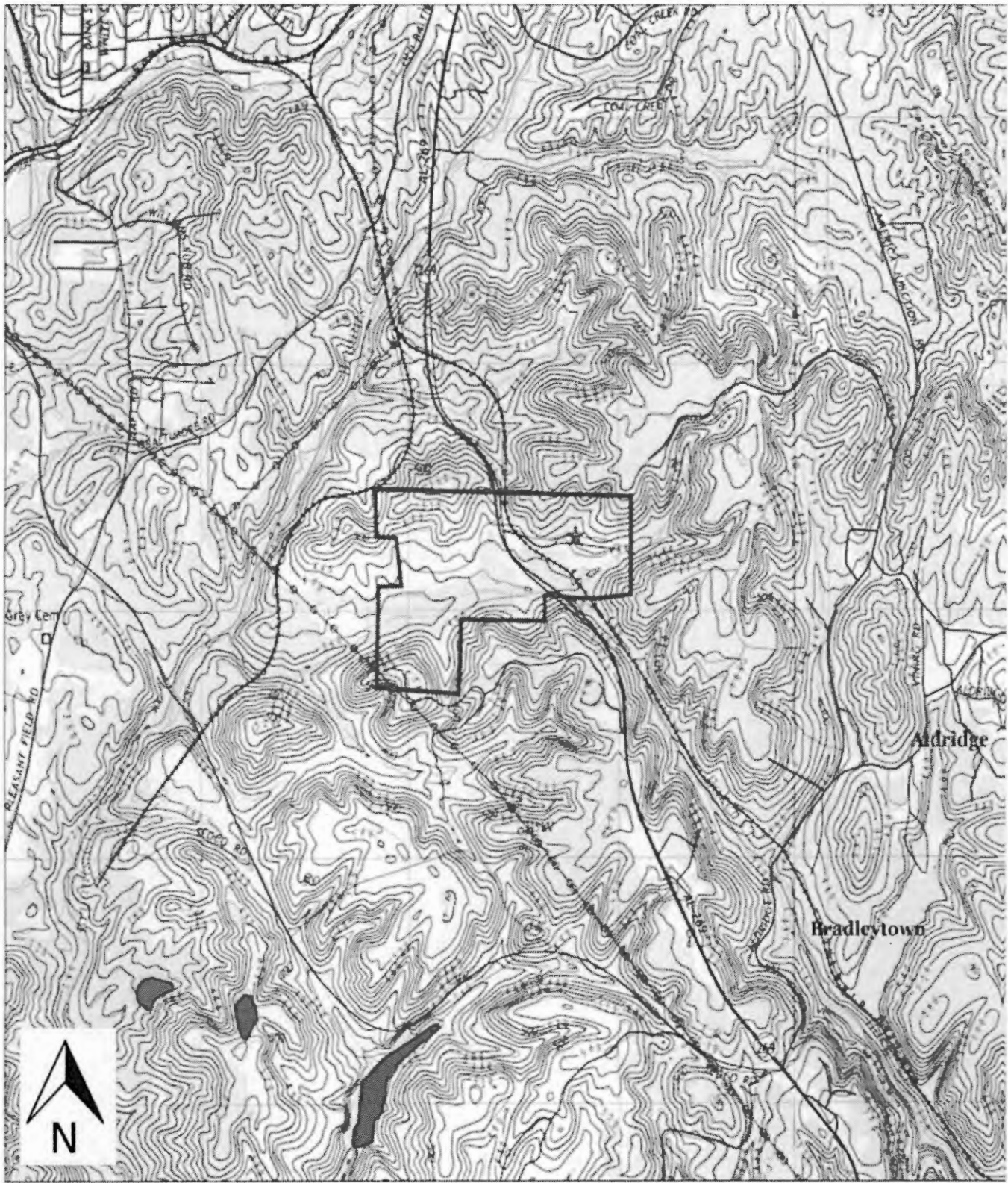
3 = Emulsion Plant (Area 1)

4 = Emulsion Plant Fuel Tank Farm (Area 1)

5 = Fuel Pumps (Area 1)

6 = Temporary Storage Sites (Area 2)

7 = Former Mining Parcels (only tractor trailers stored in this location) (Area 3)



**Figure 2**  
Dyno Nobel, Parrish, AL  
Site Location Map





EHS  Support

**Figure 3a**  
Dyno Nobel, Parrish, AL  
Form 187, Section E, Chemical Storage Locations, Main Plant (Area 1)



EHS  Support

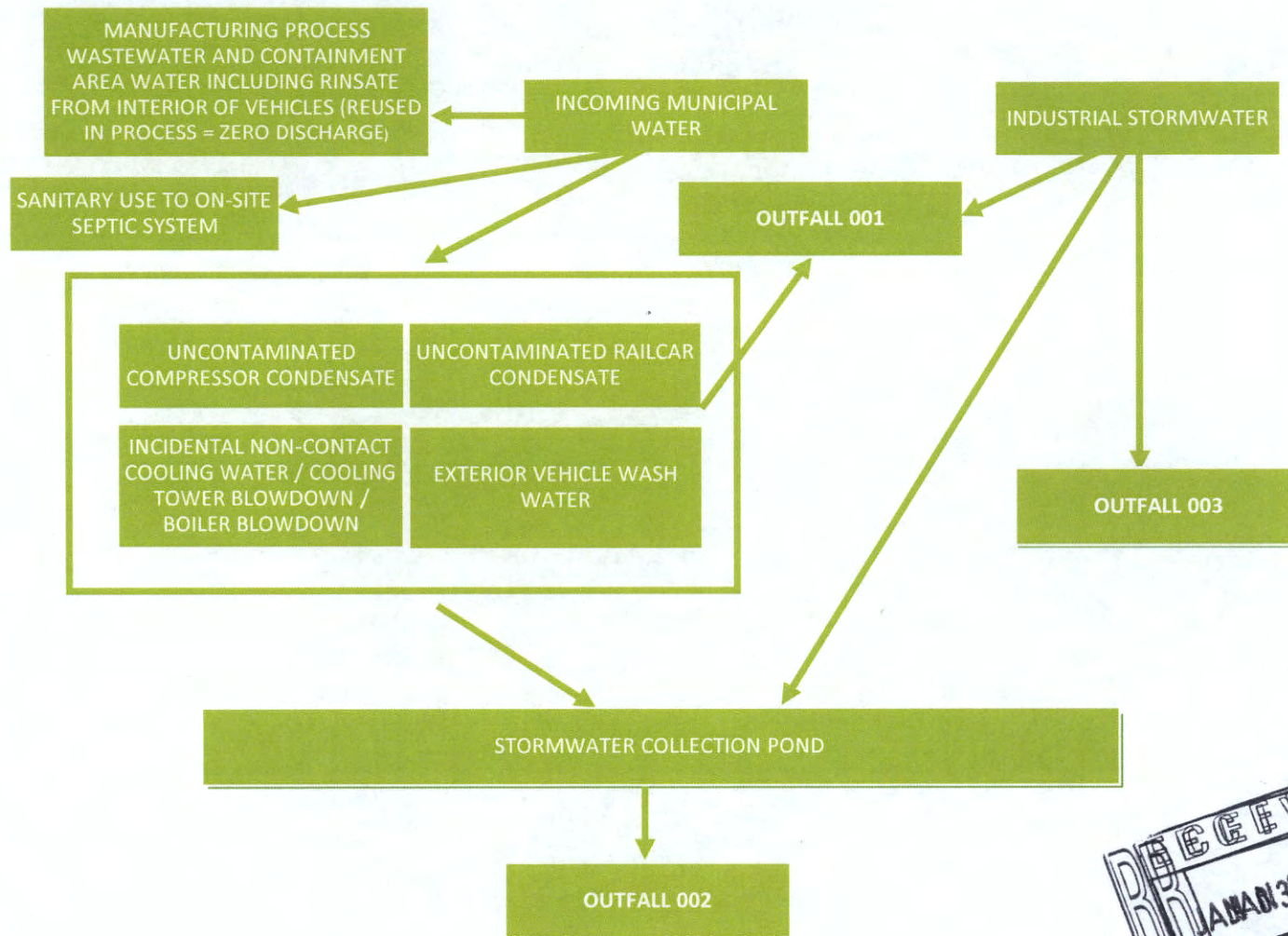
**Figure 3b**  
Dyno Nobel, Parrish, AL  
Form 187, Section E, Chemical Storage Locations, Storage Sites (Area 2)



EHS  Support

**Figure 3c**  
Dyno Nobel, Parrish, AL  
Form 187, Section E, Chemical Storage Locations, Tractor Trailer Storage  
(Area 3)

Form 187 - Figure 1  
Process Flow Schematic



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**

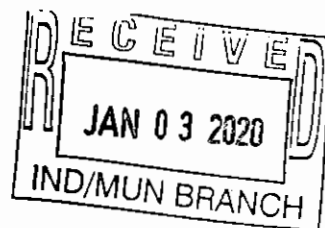
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician.  
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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<sub>2</sub>, dry chemical, foam, water spray

**Special hazards:** No test data

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

#### 6. ACCIDENTAL 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/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
Sodium Hydroxide	C	2.000000 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
Sodium Hydroxide	C	2.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
Potassium Hydroxide	C	2.000000 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
Potassium Hydroxide	C	2.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
Sodium Metabisulphite	STEL	5.000000 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
Sodium Metabisulphite	TWA	5.000000 mg/m <sup>3</sup>	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

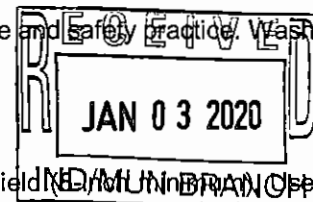
**Eye/face protection** Use tightly fitting safety goggles and or faceshield (E/ML/IN/BRA/OP) equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**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.

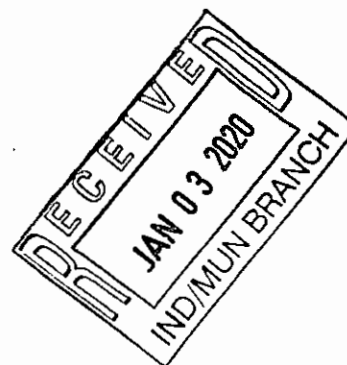
**Respiratory protection** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face 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

<b>Appearance</b>	
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.

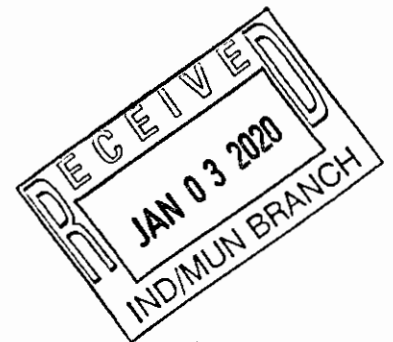
## 12. ECOLOGICAL INFORMATION

### 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

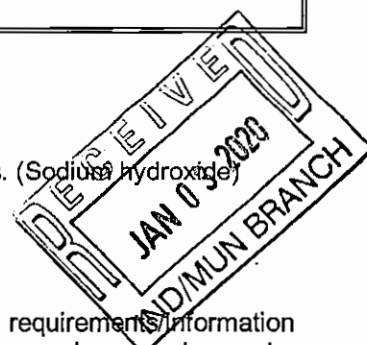
**Disposal methods:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable 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 than Federal or State.

## 14. TRANSPORTATION INFORMATION

### DOT

<b>UN Number:</b>	UN 3266
<b>Proper Shipping Name:</b>	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)
<b>Hazard Class:</b>	8
<b>Packing Group:</b>	III
<b>Label Required:</b>	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  
Fire = 0  
Reactivity = 1

0 = Least  
1 = Slight  
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<sub>2</sub>, dry chemical, foam, water spray

**Special hazards:** No test data

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

#### 6. ACCIDENTAL 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.

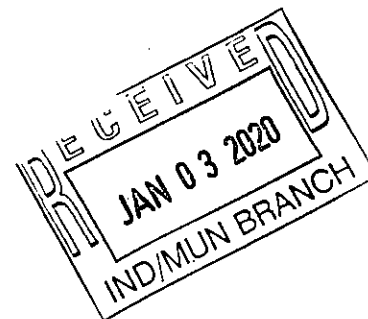
**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**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/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
Potassium Hydroxide	C	2.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
Morpholine	TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)
Morpholine	TWA	20.000000 ppm 70.000000 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
Morpholine	ST	30.000000 ppm 105.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
Morpholine	TWA	20.000000 ppm 70.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
Sodium Metabisulphite	STEL	5.000000 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
Sodium Metabisulphite	TWA	5.000000 mg/m <sup>3</sup>	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

<b>Appearance</b>	
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.

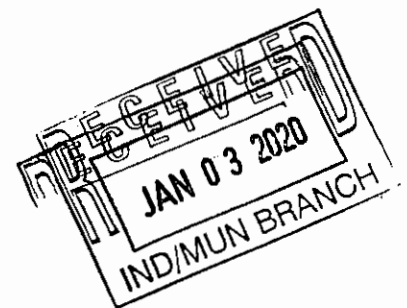
## 12. ECOLOGICAL INFORMATION

### 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.

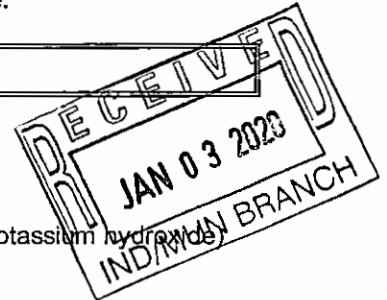
## 13. DISPOSAL CONSIDERATIONS

**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 than 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

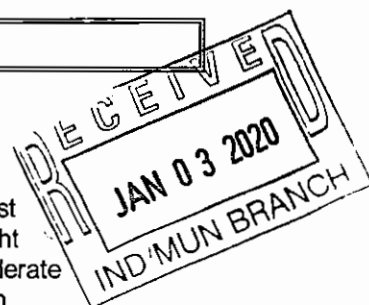
## 16. OTHER INFORMATION

Revision Date: October 30, 2019

### Hazard Ratings:

	HMIS	NFPA
Health =	1	1
Fire =	0	0
Reactivity =	1	1

0 = Least  
1 = Slight  
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





ENCLOSURE B EPA FORM 1



FORM <b>1</b> GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY <b>GENERAL INFORMATION</b> Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER S F <b>ALR000024281</b> T/A C D
LABEL ITEMS		PLEASE PLACE LABEL IN THIS SPACE	1 2 13 14 15
I. EPA I.D. NUMBER			
III. FACILITY NAME			
V. FACILITY MAILING ADDRESS			
VI. FACILITY LOCATION			

**GENERAL INSTRUCTIONS**  
If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

**II. POLLUTANT CHARACTERISTICS**  
INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X"			SPECIFIC QUESTIONS	Mark "X"		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a <b>publicly owned treatment works</b> which results in a discharge to waters of the U.S.? (FORM 2A)		<b>X</b>		B. Does or will this facility (either existing or proposed) include a <b>concentrated animal feeding operation</b> or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		<b>X</b>	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		<b>X</b>		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		<b>X</b>	
E. Does or will this facility treat, store, or dispose of <b>hazardous wastes</b> ? (FORM 3)		<b>X</b>		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		<b>X</b>	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		<b>X</b>		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		<b>X</b>	
I. Is this facility a proposed <b>stationary source</b> which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		<b>X</b>		J. Is this facility a proposed <b>stationary source</b> which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		<b>X</b>	

**III. NAME OF FACILITY**

c	1	SKIP	DYNO NOBEL INC.
		15 16 - 29	30 69

**IV. FACILITY CONTACT**

o	2	A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
		Ed Glass, SITE MANAGER	205-686-5095
		15 16 45 46 48 49 51 52 55	

**V. FACILITY MAILING ADDRESS**

c	3	A. STREET OR P.O. BOX		
		8425 HIGHWAY 269		
		15 16 45		
c	4	B. CITY OR TOWN	C. STATE	D. ZIP CODE
		PARRISH	AL	35580
		15 16 40 41 42 47 51		

**VI. FACILITY LOCATION**

c	5	A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER				
		8425 HIGHWAY 269				
		15 16 45				
c	6	B. COUNTY NAME	C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
		WALKER	PARRISH	AL	35580	
		48 70	15 16 40 41 42 47 51 52 54			

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)			
A. FIRST		B. SECOND	
7	2892 (specify) EXPLOSIVES MANUFACTURING	7	(specify)
C. THIRD		D. FOURTH	
7	(specify)	7	(specify)

VIII. OPERATOR INFORMATION	
A. NAME	
8 DYNOL NOBEL INC.	
B. Is the name listed in Item VIII-A also the owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify)		D. PHONE (area code & no.)	
F = FEDERAL S = STATE P = PRIVATE	M = PUBLIC (other than federal or state) O = OTHER (specify)	P	(205) 686-5095

E. STREET OR P.O. BOX	
8425 HIGHWAY 269	

F. CITY OR TOWN		G. STATE	H. ZIP CODE	IX. INDIAN LAND
8 PARRISH		AL	35580	Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

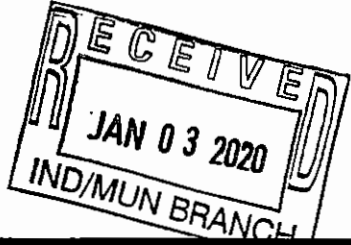
X. EXISTING ENVIRONMENTAL PERMITS			
A. NPDES (Discharges to Surface Water)		D. PSD (Air Emissions from Proposed Sources)	
8	N	9	P

B. UIC (Underground Injection of Fluids)		E. OTHER (specify)	
9	U	(specify)	

C. RCRA (Hazardous Wastes)		E. OTHER (specify)	
9	R ALR000024281	(specify)	

XI. MAP  
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See Instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)  
THE FACILITY CONDUCTS BLASTING AGENT MANUFACTURING, AND DISTRIBUTION AND STORAGE OF COMMERCIAL EXPLOSIVES.



XIII. CERTIFICATION (see instructions)  
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print) ED Glass, SITE MANAGER	B. SIGNATURE <i>Ed Glass</i>	C. DATE SIGNED 12/23/2019
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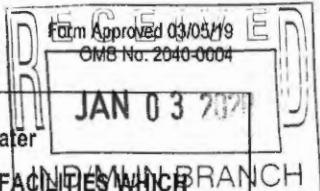
COMMENTS FOR OFFICIAL USE ONLY	

ENCLOSURE D

EPA FORM 2E

RECEIVED  
JAN 03 2020  
IND/MUN BRANCH

EPA Identification Number ALR000024281	NPDES Permit Number AL0083810	Facility Name Dyno Nobel Parrish
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FORM 2E NPDES

**EPA**

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 Tributa	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.) <input type="checkbox"/> New discharger <input checked="" type="checkbox"/> 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.) <input type="checkbox"/> Sanitary wastes <input checked="" type="checkbox"/> Other nonprocess wastewater (describe/explain directly below) <input type="checkbox"/> Restaurant or cafeteria waste      Boiler blowdown <input checked="" type="checkbox"/> Non-contact cooling water				
	3.2	Does the facility use cooling water additives? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 4.				
	3.3	List the cooling water additives used and describe their composition.				
		<table border="1"> <thead> <tr> <th>Cooling Water Additives (list)</th> <th>Composition of Additives (if available to you)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Cooling Water Additives (list)	Composition of Additives (if available to you)		
Cooling Water Additives (list)	Composition of Additives (if available to you)					

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

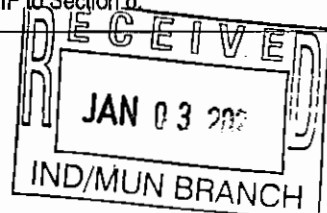
Effluent Characteristics	4.1	Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No; a waiver has been requested from my NPDES permitting authority (attach waiver request and additional information) → SKIP to Section 5.			
	4.2	Provide data as requested in the table below. <sup>1</sup> (See instructions for specifics.)			
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)	Average Daily Discharge (specify units)
				Mass	Conc.
		Biochemical oxygen demand (BOD <sub>5</sub> )			22.4 mg/L
		Total suspended solids (TSS)			118 mg/L
		Oil and grease			<5.3 mg/L
		Ammonia (as N)			82.4 mg/l
		Discharge flow			
		pH (report as range)			7.60
	Temperature (winter)			49.6 F	
	Temperature (summer)				

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

Effluent Characteristics Continued	4.3	Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.5.					
	4.4	Provide data as requested in the table below. <sup>1</sup> (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					
		<i>E. coli</i>					
		Enterococci					
	4.5	Is chlorine used (or will it be used)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 4.7.					
	4.6	Provide data as requested in the table below. <sup>1</sup> (See instructions for specifics.)					
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)	Source (use codes per instructions)
			Mass	Conc.	Mass	Conc.	
	Total Residual Chlorine			18 mg/l			
4.7	Is non-contact cooling water discharged (or will it be discharged)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 5.						
4.8	Provide data as requested in the table below. <sup>1</sup> (See instructions for specifics.)						
	Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)	Source (use codes per instructions)	
			Mass	Conc.	Mass	Conc.	
	Chemical oxygen demand (COD)			104 mg/L			
	Total organic carbon (TOC)			24.1 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? <input type="checkbox"/> Yes → Complete this section. <input checked="" type="checkbox"/> No → SKIP to Section 6.				
	5.2	Briefly describe the frequency and duration of flow.				



**SECTION 6. TREATMENT SYSTEM (40 CFR 122.21(h)(6))**

Treatment System	6.1	Briefly describe any treatment system(s) used (or to be used). No treatment systems are used.			
------------------	-----	--	--	--	--

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

EPA Identification Number  
ALR000024281

NPDES Permit Number  
AL0083810

Facility Name  
Dyno Nobel Parrish

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

**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 stormwater permit application, samples were collected from the stormwater collection pond. Water from collection pond encompasses runoff from stormwater, boiler blowdown, cooling tower. Collection pond is only released to Outfall 002 if it reaches the level of the overflow pipe. There would need to be enough stormwater during a qualifying rain event to cause the pond water to reach the overflow pipe. Non-process waste water discharges via Outfall 002 only.

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


Checklist and Certification Statement

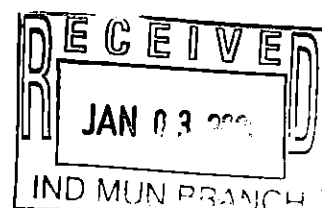
8.1 In Column 1 below, mark the sections of Form 2E that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2
<input checked="" type="checkbox"/> Section 1: Outfall Location	<input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)
<input checked="" type="checkbox"/> Section 2: Discharge Date	<input type="checkbox"/> w/ attachments
<input checked="" type="checkbox"/> Section 3: Waste Types	<input type="checkbox"/> w/ attachments
<input checked="" type="checkbox"/> Section 4: Effluent Characteristics	<input type="checkbox"/> w/ attachments
<input checked="" type="checkbox"/> Section 5: Flow	<input type="checkbox"/> w/ attachments
<input checked="" type="checkbox"/> Section 6: Treatment System	<input type="checkbox"/> w/ attachments
<input checked="" type="checkbox"/> Section 7: Other Information	<input type="checkbox"/> w/ attachments
<input checked="" type="checkbox"/> Section 8: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments

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
Ed Glass	Site Manager
Signature 	Date signed 1/3/2020





ENCLOSURE C EPA FORM 2F

RECEIVED  
JAN 03 2020  
IND/MUN BRANCH

Please print or type in the unshaded areas only.

FORM  
2F  
NPDES



U.S. Environmental Protection Agency  
Washington, DC 20460

### Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

#### Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

#### I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (list)	B. Latitude			C. Longitude			D. Receiving Water (name)
001	33.00	42.00	43.50	87.00	15.00	32.52	Tributary to Bryants Creek
002	33.00	42.00	41.38	87.00	15.00	34.58	Collection Pond then Tributary to Bryants Creek
003	33.00	42.00	41.19	87.00	15.00	41.51	Tributary to Bryants Creek

#### II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
N/A					

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

#### III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Refer to Attachment III.



Continued from the Front

**IV. Narrative Description of Pollutant Sources**

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
001	50 Percent	0.15 Acres	002	40 Percent	2.5 Acres
003	0 Percent	0.8 Acres			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Attachment III provides a list of materials stored onsite. Most materials are stored within secondary containment or within the buildings or under roof at the facility. 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 being discharged to the tributary. The water from stormwater collection 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.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
001	Discharge to ground surface then tributary	4-A
002	Discharge to collection pond then to tributary if overflow event occurs (representative of discharge to outfalls 001 and 003)	3-G
003	Discharge to ground surface or drainage ditch then tributary	4-A

**V. Nonstormwater Discharges**

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
ED Glass, Site Manager		12/23/19

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

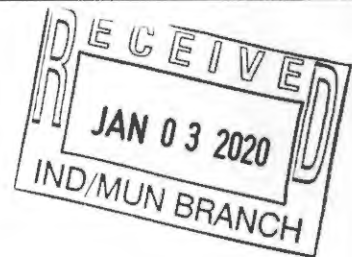
**Visual Observations**

All industrial stormwater drains to an onsite stormwater collection pond before discharged via overflow pipe to an unnamed tributary, both of which are located on Dyno Nobel property to the east of Highway 269. Also, on the Dyno Nobel property, the tributary flows south on the to a culvert under Highway 269, then through the former surface mining parcel (now reclaimed) owned by Dyno Nobel, to the west of Highway 269, to Bryanta Creek. Testing for DSN-001 occurred 8/2018 and testing for DSN-002 & 003 occurred 2/2019.

**VI. Significant Leaks or Spills**

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

None identified



Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1)  
ALR000024281

**VII. Discharge Information**

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.  
Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis -- Is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

Yes (list all such pollutants below)

No (go to Section IX)

**VIII. Biological Toxicity Testing Data**

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 3 years?

Yes (list all such pollutants below)

No (go to Section IX)

**IX. Contract Analysis Information**

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

Yes (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

No (go to Section X)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
1/22/18: Pace Analytical	1638 Roseytown Road, Suites 2, 3, 4 Greensburg, PA 15601	(724) 850-5600	Naphthalene, benzene, ethylbenzene, toluene, xylenes, pH
5/21/18: Pace Analytical	4320 Midmost Drive Mobile, AL 336609	(251) 344-9106	BOD, oil and grease, TSS, pH, Total Nitrogen, Total Kjeldahl Nitrogen, Total Phosphorus, Nitrogen NO2 plus NO3, COD

**X. 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 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.

A. Name & Official Title (Type Or Print)  
Ed Glass, Site Manager

B. Area Code and Phone No.  
(205) 686-5095

C. Signature  
*Ed Glass*

D. Date Signed  
12/23/2019



**VII. Discharge information (Continued from page 3 of Form 2F)**

**Part A** – 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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	*B	N/A	*B	N/A	1.00	DSN001
Biological Oxygen Demand (BOD5)	22.4 mg/L	N/A	22.4 mg/L	N/A	1.00	DSN001
Chemical Oxygen Demand (COD)	104 mg/L	N/A	104 mg/L	N/A	1.00	DSN001
Total Suspended Solids (TSS)	118 mg/L	N/A	118 mg/L	N/A	1.00	DSN001
Total Nitrogen	421 mg/L	N/A	421 mg/L	N/A	1.00	DSN001
Total Phosphorus	1 mg/L	N/A	1 mg/L	N/A	1.00	DSN001
pH	Minimum 7.60	Maximum 7.60	Minimum 7.60	Maximum 7.60	1.00	DSN001

**Part B** – List each pollutant that is limited in an effluent guideline which 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 Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		

**VII. Discharge information (Continued from page 3 of Form 2F)**

Part A - 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.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	*B	N/A	*B	N/A	1.00	DSN002
Biological Oxygen Demand (BOD5)	2.48 mg/l	N/A	2.48 mg/l	N/A	1.00	DSN002
Chemical Oxygen Demand (COD)	*B mg/l	N/A	*B mg/l	N/A	1.00	DSN002
Total Suspended Solids (TSS)	180 mg/l	N/A	180 mg/l	N/A	1.00	DSN002
Total Nitrogen	13.1 mg/l	N/A	13.1 mg/l	N/A	1.00	DSN002
Total Phosphorus	0.17 mg/l	N/A	0.17 mg/l	N/A	1.00	DSN002
pH	Minimum 7.15	Maximum 7.19	Minimum	Maximum 7.19	1.00	DSN002

Part B - List each pollutant that is limited in an effluent guideline which 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 Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		



Continued from the Front

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

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
TOLUENE	0.0021 MG/L	N/A	N/A	N/A	0.00	Blasting agent manufacturing
BENZENE	<0.005 MG/L	N/A	N/A	N/A	0.00	Blasting agent manufacturing
ETHYLBENZE	<0.005 MG/L	N/A	N/A	N/A	0.00	Blasting agent manufacturing
NAPHTHALEN	<0.0056 MG/L	N/A	N/A	N/A	0.00	Blasting agent manufacturing
XYLENE	<0.015 MG/L	N/A	N/A	N/A	0.00	Blasting agent manufacturing

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
Samples collected on 1/22/18 and 5/21/18	N/A- Sample collected from stormwater collection pond	N/A	N/A	N/A	N/A

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

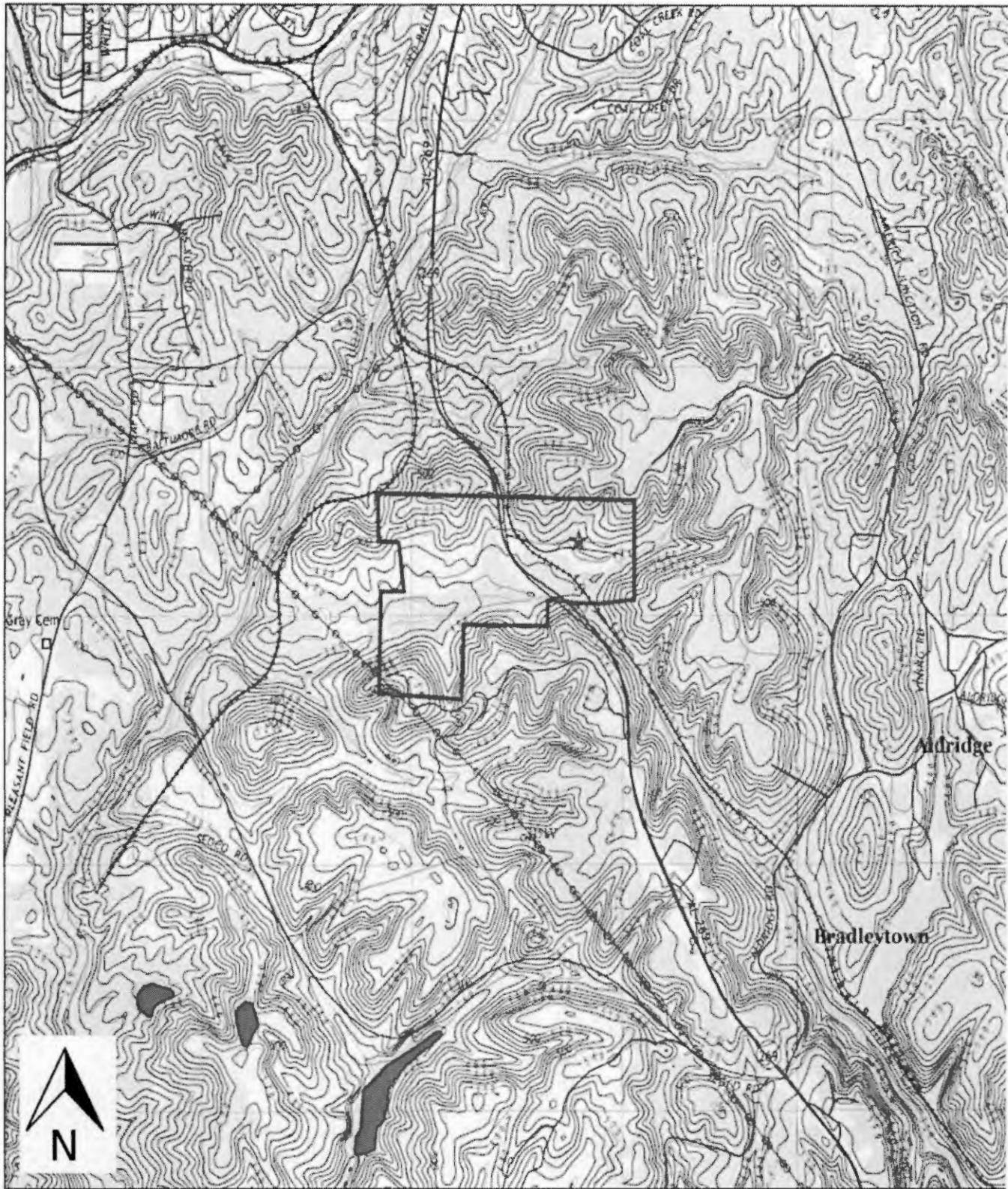
To prepare this stormwater permit application, the samples were collected from the stormwater collection pond. The water from stormwater collection pond is only released if it reaches the level of the overflow pipe. There would need to be enough stormwater during a qualifying rain event to cause the pond water to reach the overflow pipe.



## Form 2F Attachment III

### III. Site Drainage Map

- Topographic map: Figure 2
- Drainage areas: Figure 5
  - Intake structures: N/A
  - Discharge structures: at all outfall locations depicted in Figure 5
  - Drainage area of each storm water outfall: Figure 5
  - Paved areas and buildings within the drainage area of each storm water outfall: Figure 5
  - Each known past or present areas used for outdoor storage or disposal of significant materials: Figure 5 and Form 187 SECTION E – WASTE STORAGE AND DISPOSAL INFORMATION.
  - Each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas: Any containment areas are identified in Form 187 SECTION E – WASTE STORAGE AND DISPOSAL INFORMATION.
  - Areas where pesticides, herbicides, soil conditioners and fertilizers are applied: N/A
  - Each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34): N/A
  - Each well where fluids from the facility are injected underground: N/A
  - Springs, other surface water bodies which received storm water discharges from the facility: Figure 4



**Figure 2**  
Dyno Nobel, Parrish, AL  
Site Location Map





**Figure 4**  
 Dyno Nobel, Parrish, AL  
 EPA Waters GeoViewer Downstream Drainage Area Delineation

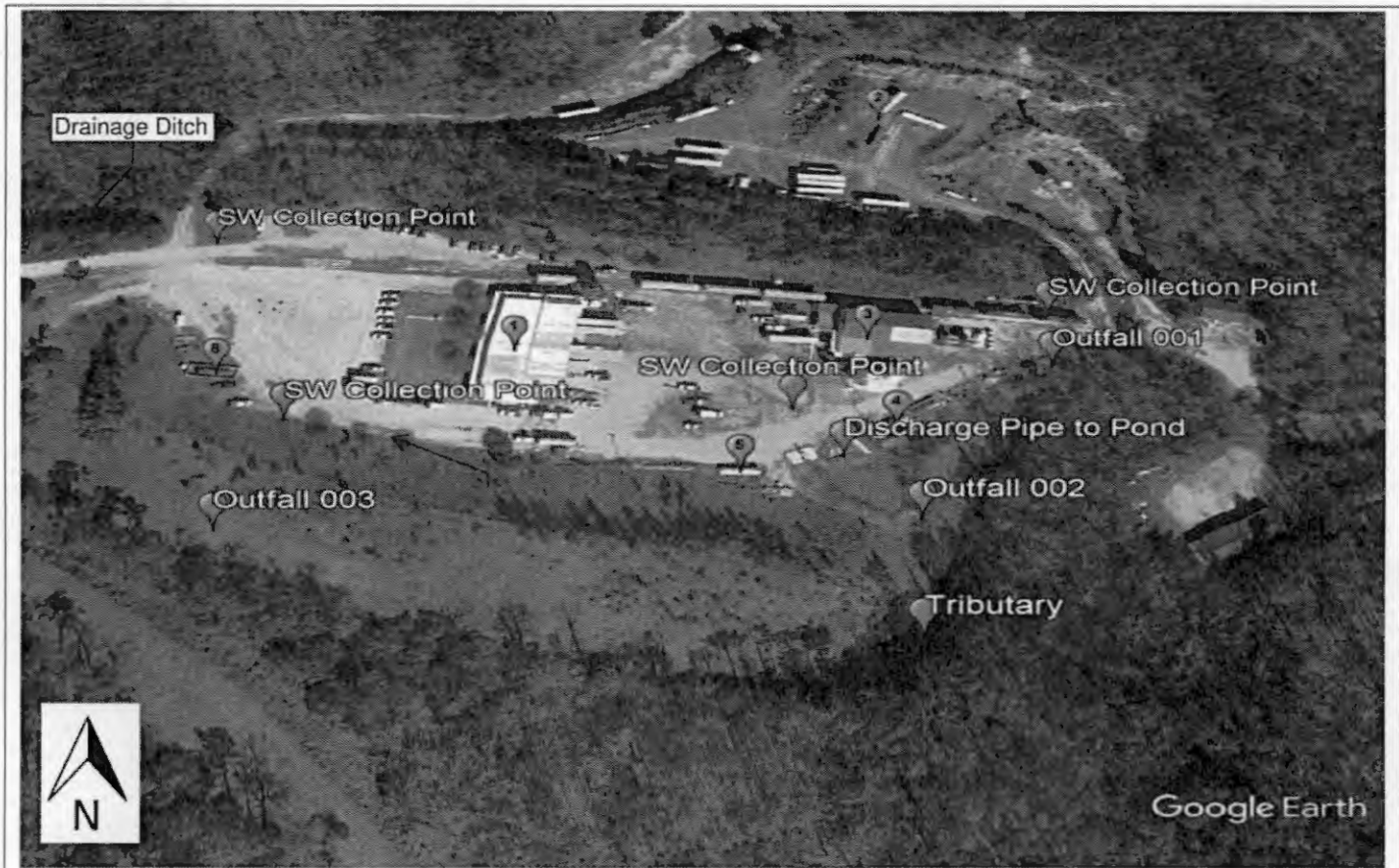


Figure 5  
Dyno Nobel, Parrish, AL  
Site Drainage Map

**ENCLOSURE E**

**EPA FORM 311**

## Attachment 1 to Supplementary Form ADEM Form 311

### *Alternatives Analysis*

*Applicant/Project:* AL0083810

All new or expanded discharges (except discharges eligible for coverage under general permits) covered by the NPDES permitting program are subject to the provisions of ADEM's antidegradation policy. Applicants for such discharges to Tier 2 waters are required to demonstrate "... that the proposed discharge is necessary for important economic or social development." As a part of this demonstration, the applicant must complete an evaluation of the discharge alternatives listed below, including a calculation of the total annualized project costs for each technically feasible alternative (using ADEM Form 312 for public-sector projects and ADEM Form 313 for private-sector projects). Alternatives with total annualized project costs that are less than 110% of the total annualized project costs for the Tier 2 discharge proposal are considered viable alternatives.

Alternative	Viable	Non-Viable	Comment
1 Land Application		x	See Attachment A
2 Pretreatment/Discharge to POTW		x	See Attachment A
3 Relocation of Discharge		x	See Attachment A
4 Reuse/Recycle		x	See Attachment A
5 Process/Treatment Alternatives		x	See Attachment A
6 On-site/Sub-surface Disposal		x	See Attachment A
<i>(other project-specific alternatives considered by the applicant; attach additional sheets if necessary)</i>			
7 NPDES Permit	x		Cost Effective Method
8			
9			

Pursuant to ADEM Administrative Code Rule 335-6-3-.04, I certify on behalf of the applicant that I have completed an evaluation of the discharge alternatives identified above, and reached the conclusions indicated.

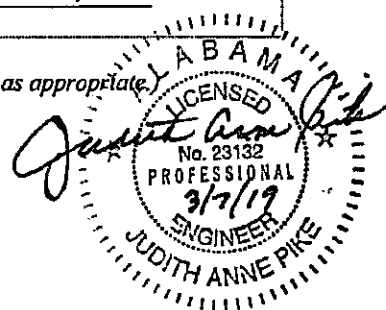
Signature: *Judith Anne Pike*

(Professional Engineer)

Date: March 7, 2019

(Supporting documentation to be attached, referenced, or otherwise handled as appropriate.)

ADEM Form 311 3/02





March 4, 2019

**Attachment A**

**Alternative Analysis  
Dyno Nobel Inc.**

1. Land Application

This application is for an industrial individual NPDES permit. The facility's NAICS Code does not fit under the current general permit regulations. Therefore, this facility is requesting issuance of an individual permit. Sampling locations have been established and best management practices including a stormwater detention pond have been implemented. Samples will be collected and analyzed as required by permit to ensure compliance with the issued permit.

2. Pre-Treatment/Discharge to POTW

The nearest POTW is the Parrish Lagoon System which is approximately 2.0 miles from the site. The POTW is not designed or capable of treating stormwater from industrial sources.

3. Relocation of Discharge

Relocating the discharge would not change the characteristics of the stormwater runoff from the facility.

4. Reuse/Recycle

Reusing or recycling the stormwater is not a viable option as the stormwater is not of sufficient quality for the stringent parameters that would be required with the recycling or reuse of the water.

5. Process/Treatment Alternatives

The proposed treatment and disposal method at this facility is based on best engineering practices and utilizes the most effective and efficient means of removing pollutants from wastewater. Therefore this is not a viable alternative.

6. On-site/Sub-surface Disposal

On-site disposal in the form of land application is addresses under Item #1. Due to the waste characteristics this is not a viable option.

## Holt, Wayne A

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**From:** Chris Stek <chris.stek@am.dynonobel.com>  
**Sent:** Friday, January 3, 2020 2:03 PM  
**To:** Holt, Wayne A  
**Cc:** Ed Glass  
**Subject:** Dyno NPDES Application  
**Attachments:** PAAL NPDES Application Rev Jan 2020.pdf

Wayne,

Happy new year. Attached is the revised NPDES application for the Dyno Nobel Parrish facility.

As we recently discussed, there has been changes at the facility since the previous submittal back in April 2019. Listed below are page numbers within the application that have been updated along with a brief description of the revision.

### **ADEM Form 187**

Page 1: New site manager  
Page 4: Section C1 include boiler blowdown  
Page 7: Section C7 new chemicals  
Page 11: New site manager  
Page 15: Include boiler in schematic  
Page 20: Updated data for section C6  
Pages 21-38: Chemical SDSs

### **EPA Form 1**

Pages 40-41: New site manager

### **EPA Form 2E**

Pages 42-45: Per ADEM request

### **EPA Form 2F**

Pages 48-49: New site manager

Please note that know that Jay Mather with EMC is no longer associated with this application. Feel free to contact me or Ed Glass with any questions or concerns.

Thanks

Best regards,  
**Chris Stek**  
Environmental Manager

Dyno Nobel Inc.  
A business of Incitec Pivot Limited  
Simsbury Plant, 660 Hopmeadow Street, P.O. Box 2006, Simsbury, CT 06070, USA  
Office: +1 860 408 1933 | Fax: +1 860 408 1987 | Mobile: +1 860 810 4035  
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**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)  
NPDES INDIVIDUAL PERMIT APPLICATION  
SUPPLEMENTARY INFORMATION FOR INDUSTRIAL FACILITIES**

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

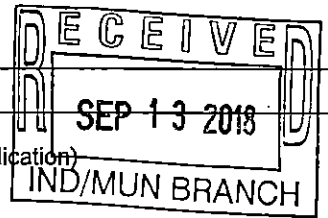
ADEM-Water Division  
Industrial Section  
P O Box 301463  
Montgomery, AL 36130-1463

**PURPOSE OF THIS APPLICATION**

- Initial Permit Application for New Facility\*       Initial Permit Application for Existing Facility\*  
 Modification of Existing Permit                       Reissuance of Existing Permit  
 Revocation & Reissuance of Existing Permit      \* An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required.

**SECTION A - GENERAL INFORMATION**

1. Facility Name: Dyno Nobel Inc.  
 a. Operator Name: Dyno Nobel Inc.  
 b. Is the operator identified in A.1.a, the owner of the facility?     Yes     No  
 If no, provide name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.



2. NPDES Permit Number: AL \_\_\_\_\_ (not applicable to initial permit application)  
 3. SID Permit Number (if applicable): IU \_\_\_\_\_  
 4. NPDES General Permit Number (if applicable): AL \_\_\_\_\_

5. Facility Physical Location: (Attach a map with location marked, street, route no. or other specific identifier)  
 Street: 8425 Highway 269  
 City: Parrish County: Walker State: AL Zip: 35580  
 Facility Location (Front Gate): Latitude: 33°42'45.72"N Longitude: 87°15'54.15"W

6. Facility Mailing Address: 8425 Highway 269  
 City: Parrish County: Walker State: AL Zip: 35580

7. Responsible Official (as described on the last page of this application):  
 Name and Title: Kiel Kemp, Site Manager  
 Address: 8425 Highway 269  
 City: Parrish State: AL Zip: 35580  
 Phone Number: 205-686-5095 Email Address: kiel.kemp@am.dynonobel.com

8. Designated Facility Contact:  
 Name and Title: Wayne Burks  
 Phone Number: 205-686-5095 Email Address: wayne.burks@am.dynonobel.com

Application Replaced 3/10/20  
 Who? Water one received