LANCE R. LEFLEUR
DIRECTOR

KAY IVEY
GOVERNOR

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

SEPTEMBER 11, 2020

MS BONNIE TULLY
VP AND SITE MANAGER - MOBILE SITE
EVONIK CORPORATION
P.O. BOX 868
THEODORE AL 36590

RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0023272

Dear Ms. Tully:

Transmitted herein is a draft of the referenced permit.

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

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

Our records indicate that you are currently utilizing the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs). Your E2 DMRs will automatically update on the effective date of this permit, if issued.

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

If you have questions regarding this permit or monitoring requirements, please contact Scott Ramsey by e-mail at **sramsey@adem.alabama.gov** or by phone at **(334) 271-7838.**

Sincerely,

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

Enclosure: Draft Permit

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

Birmingham 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)

ADEM
Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: EVONIK CORPORATION

FACILITY LOCATION: 4201 DEGUSSA ROAD
THEODORE, AL 36590

PERMIT NUMBER: AL0023272

RECEIVING WATERS: DSN001: THEODORE BARGE CANAL
DSN002, DSN003, DSN005: UNAMED TRIBUTARY TO MIDDLE FORK DEER RIVER

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

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management

INDUSTRIAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

TABLE OF CONTENTS

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:

DSN0011: Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Temperature, Water Deg. Fahrenheit	-	-	-	REPORT F	90 F	Daily	Grab	-
Oxygen, Dissolved (DO) 3/	-	-	REPORT mg/l	-	-	3X Weekly test	Grab	May - October
Oxygen, Dissolved (DO) 3/	-	-	REPORT mg/l	-	-	Weekly	Grab	November - April
BOD, 5-Day (20 Deg. C)	141.14 lbs/day	380.39 lbs/day	-	4.0 mg/l	8.0 mg/l	Daily	Composite	-
pH	-	-	6.0 S.U.	-	9.0 S.U.	Daily	Grab	-
Solids, Total Suspended	645.8 lbs/day	1779.4 lbs/day	-	-	-	3X Weekly test	Composite	-
Nitrogen, Ammonia Total (As N)	45 lbs/day	68 lbs/day	-	-	-	Daily	Composite	-
Nitrogen, Kjeldahl Total (As N)	125 lbs/day	175 lbs/day	-	-	-	Once/2 Weeks	Composite	-

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/ Samples shall be collected from the Theodore Barge Canal at a location downstream of the discharge and at a depth of 5 feet. During periods when the D.O. is less than 5.0 mg/l the permittee shall cease the discharge of process wastewaters to the Theodore Barge Canal.

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:

DSN0011 (continued): Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Nitrite Plus Nitrate Total 1 Det. (As N)	102 lbs/day	167 lbs/day	-	-	-	Once/2 Weeks	Composite	-
Phosphorus, Total (As P)	528 lbs/day	688 lbs/day	-	-	-	Once/2 Weeks	Composite	-
Carbon, Tot Organic (TOC)	670 lbs/day	1260 lbs/day	-	-	-	3X Weekly test	Composite	-
Chloride (As Cl)	-	-	-	6100 mg/l	9000 mg/l	Weekly	Composite	-
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	-
Chlorine, Total Residual 3/	-	-	-	0.022 mg/l	0.039 mg/l	Weekly	Grab	-
Cyanide, Free Available 4/	0.154 lbs/day	0.154 lbs/day	-	-	-	Monthly	Grab	-
Solids, Total Dissolved	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Composite	-

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/ 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.

4/ Monitoring for compliance with permit limitations for Cyanide shall be conducted using a site-specific minimum level (ML) of detection of 0.057 mg/l.

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: Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
LF P/F Statre 7 Day Chr Cyprinodon Variega 3/	-	-	-	-	0 pass(0)/fail(1)	Quarterly	Composite	-

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.C. Effluent Toxicity and Biomonitoring Requirements. Compliance shall be determined as no significant difference between the control and the test at 95 % confidence level for the larval survival and growth test.

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:

DSN001S: Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.3/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Nickel Total Recoverable	1.661 lbs/day	6.000 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Lead, Total Recoverable	0.237 lbs/day	1.130 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Copper Total Recoverable	0.628 lbs/day	0.746 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-

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/ Sample collection shall occur the same month at least 10 days apart.

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:

DSN001T: Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
P/F Statre 7 Day Chr Arbacia 3/	-	-	-	-	0 pass(0)/fail(1)	Monthly	Composite	-

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.C. Effluent Toxicity and Biomonitoring Requirements. Compliance shall be determined as no significant difference between the control and the test at 95 % confidence level for the fertilization test.

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:

DSN002S: North site storm water runoff from north non-process areas 3/ 4/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
pH	-	-	REPORT S.U.	-	REPORT S.U.	Twice per Year	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Oil & Grease	-	-	-	-	15.0 mg/l	Twice per Year	Grab	-
Nitrogen, Ammonia Total (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Chloride (As Cl)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Twice per Year	Estimate	-
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Twice per Year	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:

DSN003S: North site storm water runoff from east non-process areas and storm water from non-process areas associated with the BASF and BCS facilities and hydrostatic test water from the BCS site. 3/ 4/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
pH			REPORT S.U.		REPORT S.U.	Twice per Year	Grab	-
Solids, Total Suspended					REPORT mg/l	Twice per Year	Grab	-
Oil & Grease	-	-	-	-	15.0 mg/l	Twice per Year	Grab	-
Nitrogen, Ammonia Total (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Carbon, Tot Organic (TOC)					REPORT mg/l	Twice per Year	Grab	-
Chloride (As Cl)					REPORT mg/l	Twice per Year	Grab	-
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD				Twice per Year	Estimate	-
Solids, Total Dissolved					REPORT mg/l	Twice per Year	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:

DSN005S: South site storm water runoff from non-process areas 3/ 4/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
pH	-	-	REPORT S.U.	-	REPORT S.U.	Twice per Year	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Oil & Grease	-	-	-	-	15.0 mg/l	Twice per Year	Grab	-
Nitrogen, Ammonia Total (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Nitrite Plus Nitrate Total 1 Det. (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Cyanide, Total (As CN)	-	-	-	-	REPORT mg/l	Twice per Year	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:

DSN005S (continued): South site storm water runoff from non-process areas 3/ 4/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Chloride (As Cl)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	-
Flow, In Conduit or Thru Treatment Plant		REPORT MGD				Twice per Year	Estimate	-
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Twice per Year	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:

DSN01A1: Treated wastewater (south pond) resulting from the manufacture of inorganic chemicals

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
pH	-	-	REPORT S.U.	-	REPORT S.U.	Daily	Grab	-
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	-

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.

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:

DSN01BS:Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Chromium, Total (As Cr)	6.008 lbs/day	14.993 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Zinc, Total (As Zn)	6.448 lbs/day	16.090 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Carbon Tetrachloride	0.097 lbs/day	0.206 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
1,2-Dichloroethane	0.368 lbs/day	1.142 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Chloroform	0.114 lbs/day	0.249 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Toluene	0.141 lbs/day	0.433 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Benzene	0.20 lbs/day	0.736 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Acenaphthylene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-

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/ Sample collection shall occur during the same month at least 10 days apart.

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:

DSN01BS (continued): Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Acenaphthene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Acrylonitrile	0.029 lbs/day	0.058 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Anthracene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Benzo (K) Fluoranthene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Benzo (A) Pyrene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Chlorobenzene	0.081 lbs/day	0.152 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Chrysene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Diethyl Phthalate	0.438 lbs/day	1.099 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-

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/ Sample collection shall occur during the same month at least 10 days apart.

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:

DSN001BS (continued): Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Dimethyl Phthalate	0.103 lbs/day	0.254 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Ethylbenzene	0.173 lbs/day	0.585 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Fluoranthene	0.135 lbs/day	0.368 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Fluorene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Hexachloroethane	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Methyl Chloride	0.465 lbs/day	1.028 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Methylene Chloride	0.217 lbs/day	0.482 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Nitrobenzene	0.146 lbs/day	0.368 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-

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/ Sample collection shall occur during the same month at least 10 days apart.

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:

DSN01BS (continued): Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Phenanthrene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Pyrene	0.135 lbs/day	0.363 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Tetrachloroethylene	0.119 lbs/day	0.303 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
1,1-Dichloroethane	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
1,1-Dichloroethylene	0.087 lbs/day	0.135 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
1,1,1-Trichloroethane	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
1,1,2-Trichloroethane	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Benzo (A) Anthracene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-

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/ Sample collection shall occur during the same month at least 10 days apart.

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:

DSN01BS (continued): Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
1,2-Dichlorobenzene	0.417 lbs/day	0.882 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
1,2-Dichloropropane	0.828 lbs/day	1.245 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
1,2-Trans-Dichloroethylene	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
1,2,4-Trichlorobenzene	0.368 lbs/day	0.758 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
1,3-Dichlorobenzene	0.168 lbs/day	0.238 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
1,4-Dichlorobenzene	0.081 lbs/day	0.152 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
2-Chlorophenol	0.168 lbs/day	0.530 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
2-Nitrophenol	0.222 lbs/day	0.373 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-

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2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.

3/ Sample collection shall occur during the same month at least 10 days apart.

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:

DSN01BS (continued): Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
2,4-Dichlorophenol	0.211 lbs/day	0.606 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
2,4-Dimethylphenol	0.097 lbs/day	0.195 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
2,4-Dinitrotoluene	0.080 lbs/day	0.400 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
2,4-Dinitrophenol	0.384 lbs/day	0.666 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
2,6-Dinitrotoluene	1.38 lbs/day	3.470 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
4-Nitrophenol	0.390 lbs/day	0.671 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
4,6-Dinitro-O-Cresol	0.422 lbs/day	1.499 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Phenol, Single Compound	0.081 lbs/day	0.141 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-

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1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.

2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.

3/ Sample collection shall occur during the same month at least 10 days apart.

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:

DSN01BS (continued): Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Naphthalene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Bis (2-Ethylhexyl) Phthalate	0.2583 lbs/day	0.5166 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Di-N-Butyl Phthalate	0.146 lbs/day	0.309 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Vinyl Chloride	0.287 lbs/day	0.574 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Trichloroethylene	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice Every 6 Months 3/	Grab	-
Hexachlorobenzene	0.000034 lbs/day	0.000068 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Hexachlorobutadiene	0.108 lbs/day	0.265 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
1,3 Dichloropropene	0.157 lbs/day	0.238 lbs/day	-	-	-	Twice Every 6 Months 3/	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/ Sample collection shall occur during the same month at least 10 days apart.

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:

DSN01BS (continued): Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
3,4 Benzofluoranthene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months 3/	Composite	-
Chloroethane	0.563 lbs/day	1.451 lbs/day	-	-	-	Twice Every 6 Months 3/	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/ Sample collection shall occur during the same month at least 10 days apart.

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 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within 5 calendar days of the 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.

C. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS

1. The permittee shall perform short-term chronic toxicity tests on the wastewater discharges required to be tested for chronic toxicity by Part I of this permit.

a. Test Requirements

(1) The samples shall be diluted using appropriate control water, to the Instream Waste Concentration (IWC) which is 25% effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year flow period.

(2) Any test result that shows a statistically significant reduction in survival, growth, or reproduction between the control and the test at the 95% confidence level indicate chronic toxicity and constitute noncompliance with this permit.

b. General Test Requirements

(1) A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests and collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-013 or the most current edition or another control water selected by the permittee and approved by the Department.

(2) Effluent toxicity tests in which the control survival is less than 80%, or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the permittee shall rerun the tests as soon as practical within the monitoring period.

(3) In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and results.

c. Reporting Requirements

(1) The permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).

(2) Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Section 2 shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.

d. Additional Testing Requirements

(1) If chronic toxicity is indicated (noncompliance with permit limit), the permittee shall perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week following the date on which the permittee became aware of the permit noncompliance and the results of these tests shall be submitted no later than 28 days following the month in which the tests were performed.

(2) After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-91-003, EPA/600/R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.)

e. Test Methods

(1) The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Marine and Estuarine Organisms". The Larval Survival and Growth Test, Methods 1004.0 Section 11, shall be used for the Sheephead minnow (*Cyprinodon Variegatus*) test and the Fertilization Test, Method 1008.0 Section 15, shall be used for the sea urchin (*Arbacia Punctulata*) test.

2. Effluent Toxicity Testing Reports

The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any time suspend or reinstate these requirements or may decrease or increase the frequency of submittals.

a. Introduction

(1) Facility name, location, and county

(2) Permit number

(3) Toxicity testing requirements of permit

(4) Name of receiving water body

(5) Contract laboratory information (if tests are performed under contract)

(a) Name of firm
(b) Telephone number
(c) Address

(6) Objective of test

b. Plant Operation

(1) Discharge Operating schedule (if other than continuous)

(2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)

(3) Design flow of treatment facility at time of sampling

c. Source of Effluent and Dilution Water

(1) Effluent samples

(a) Sampling point
(b) Sample collection dates and times (to include composite sample start and finish times)
(c) Sample collection method
(d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
(e) Lapsed time from sample collection to delivery
(f) Lapsed time from sample collection to test initiation
(g) Sample temperature when received at the laboratory

(2) Dilution Water

(a) Source
(b) Collection/preparation date(s) and time(s)
(c) Pretreatment (if applicable)
(d) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)

d. Test Conditions

(1) Toxicity test method utilized

(2) End point(s) of test

(3) Deviations from referenced method, if any, and reason(s)

(4) Date and time test started

(5) Date and time test terminated

(6) Type and volume of test chambers

(7) Volume of solution per chamber

(8) Number of organisms per test chamber

(9) Number of replicate test chambers per treatment

(10) Test temperature, pH, and dissolved oxygen as recommended by the method (to include ranges)

(11) Specify if aeration was needed

(12) Feeding frequency, amount, and type of food

(13) Specify if (and how) pH control measures were implemented

(14) Light intensity (mean)

e. Test Organisms

(1) Scientific name

(2) Life stage and age

(3) Source

(4) Disease(s) treatment (if applicable)

f. Quality Assurance

(1) Reference toxicant utilized and source

(2) Date and time of most recent chronic reference toxicant test(s), raw data and current control chart(s). The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.

(3) Dilution water utilized in reference toxicant test

(4) Results of reference toxicant test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration response relationship and evaluate test sensitivity

(5) Physical and chemical methods utilized

g. Results

(1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate

(2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)

(3) Indicate statistical methods used to calculate endpoints

(4) Provide all physical and chemical data required by method

(5) Results of test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sub-lethal endpoints determined by hypothesis testing.

h. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits

(2) Actions to be taken

g. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits

(2) Actions to be taken

1/ Adapted from "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms", Fourth Edition, October 2002 (EPA 821-R-02-014).

D. DISCHARGE INFORMATION ZONE (DIZ) REQUIREMENTS

1. Annually the permittee shall perform a sediment and benthic community characterization utilizing the same sampling locations approved in the original DIZ study plan, unless a modified study plan is approved by the Department. The DIZ monitoring shall be repeated if the permittee fails accelerated testing and is required to initiate a Toxicity Reduction Evaluation (TRE) pursuant to Part IV.C. of this permit.

2. Monitoring shall be conducted during the same season as the original characterization and shall conform to the DIZ study plan, unless otherwise approved by the Department. Monitoring results shall be submitted to the Department along with the application for permit renewal or with the discharge monitoring report form in the event that repeated monitoring is required.

3. The permittee shall not allow biological damage or adverse water quality impacts to occur at the perimeter or outside the boundaries of the original characterization. If the biological monitoring shows evidence of biological damage or adverse water quality impacts at the perimeter or outside the boundaries of the original characterization, the permittee will be in violation of the permit unless the permittee can demonstrate that the cause of the adverse impacts are due to a source other than the permittee's discharge. In the case that it is determined to be a permit violation, the permittee will be required within 30 days after becoming aware of the violation to submit a plan to correct and eliminate the biological damage and adverse water quality impacts caused by the discharge.

4. The Department may suspend or otherwise modify the DIZ monitoring requirements if:

   a. The Department determines, through review of discharge information and/or its own modeling efforts, that the discharge is having no significant impact to coastal resources beyond 400 feet of the discharge point; or

   b. The Department determines, through the review of discharge information and/or its own modeling efforts, that the discharge monitoring is inadequate to detect significant impacts to coastal resources beyond 400 feet of the discharge point; or

   c. The Department determines, based on available biological and chemical data that, due to the nature of the discharge, no significant impacts to coastal resources will occur beyond 400 feet of the discharge point; or

   d. Deemed necessary by the Department to ensure protection of coastal resources.

E. PHOSPHORUS MINIMIZATION PLAN

1. Within 120 days of the effective date of this permit, the Permittee shall submit to the Department an engineering report, prepared and certified by a professional Engineer, which identifies the potential sources of Phosphorus from the facility and proposes a plan to treat or otherwise reduce the level of this pollutant thereby reducing the impact on the receiving stream. This submittal shall include a schedule for implementing any changes proposed in the plan.

2. Within 180 days of the Department's acceptance of the engineering report, the permittee is required to implement any and all changes proposed in the engineering report, unless an alternate timeline is approved by the Department.

F. COOLING WATER INTAKE STRUCTURE (CWIS) REQUIREMENTS

1. The entity providing water to the permittee is a public water system in accordance with Section 1401 of the Safe Drinking Water Act or from one of three company owned wells; therefore, the permittee is exempt from this permit condition.

ADEM PERMIT RATIONALE

PREPARED DATE: June 25, 2020
PREPARED BY: Ed Hughes

Permittee Name: Evonik Corporation

Facility Name: Evonik Corporation

Permit Number: AL0023272

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS & DESCRIPTIONS:

DSN001: Treated wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater

DSN002: North site storm water runoff from north non-process areas

DSN003: North site storm water runoff from east non-process areas and storm water from non-process areas associated with the BASF and BCS facilities and hydrostatic test water from the BCS site

DSN005: South site storm water runoff from non-process areas

DSN01A: Treated wastewater (south pond) resulting from the manufacture of inorganic chemicals

DSN01B: Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater

INDUSTRIAL CATEGORY: OCPSF 40CFR 414 Subparts G - Bulk Organic Chemicals (414.71), Subpart H – Specialty Organic Chemicals (414.81) and Subpart I (Direct Discharges that Use In-Of-Pipe Biological Treatment (414.91)
Inorganic Chemicals 40CFR 415 Subpart I – Hydrogen Peroxide Production (415.92)

MAJOR: Y

STREAM INFORMATION:

Receiving Stream:	Middle Fork Deer River (Theodore Barge Canal) (DSN001)
Classification:	F & W
River Basin:	Mobile,
7Q10:	34.92 cfs
1Q10:	26.19 cfs
Annual Ave Flow:	34.92 cfs
303(d) List:	Yes
Impairment:	Organic Enrichment (CBOD, NBOD)
TMDL:	No

Receiving Stream:	Unnamed Tributary to Middle Fork Deer River (DSN002, 003, 005)
Classification:	F & W
River Basin:	Mobile,
7Q10:	0.0 cfs
1Q10:	0.0 cfs
Annual Ave Flow:	0.0 cfs
303(d) List:	No
Impairment:	No
TMDL:	No

DISCUSSION:

Evonik Corporation manufactures specialty organic and inorganic chemicals at their Theodore facility. The treated process wastewaters are discharged through outfall DSN001 to the Middle Fork Deer River, commonly known as the Theodore Barge Canal. It is classified as a Fish & Wildlife, Tier 1 stream and is listed on the ADEM 303(d) list as being impaired for organic enrichment (collection system failure/urban runoff/storm sewers). It is tidally influenced but based on dye studies and modeling simulations the 7Q10 flow was previously determined to be 34.92 cfs (22.56 MGD). The 1Q10 was determined to be 26.19 cfs (16.92 MGD) based on 75% of the 7Q10. Human health limitations were calculated using the 7Q10 flow value. The proposed permit will continue to require the permittee to perform Discharge Information Zone (DIZ) studies annually to evaluate potential adverse effects as result of this discharge.

Because the stream is tidally influenced marine water quality standards were evaluated.

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

0011: Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Temperature, Water Deg. Fahrenheit	-	-	-	REPORT F	90 F	Daily	Grab	WQBEL
Oxygen, Dissolved (DO) *	-	-	REPORT mg/l	-	-	3X Weekly test	Grab	BPJ
Oxygen, Dissolved (DO) *	-	-	REPORT mg/l	-	-	Weekly	Grab	BPJ
BOD, 5-Day (20 Deg. C)	141.14 lbs/day	380.39 lbs/day	-	4.0 mg/l	8.0 mg/l	Daily	Composite	BPJ/EGL/ WQBEL
pH	-	-	6.0 S.U.	-	9.0 S.U.	Daily	Grab	BPJ
Solids, Total Suspended	645.8 lbs/day	1779.4 lbs/day	-	-	-	3X Weekly test	Composite	BPJ/EGL
Nitrogen, Ammonia Total (As N)	45 lbs/day	68 lbs/day	-	-	-	Daily	Composite	BPJ
Nitrogen, Kjeldahl Total (As N)	125 lbs/day	175 lbs/day	-	-	-	Once/2 Weeks	Composite	BPJ
Nitrite Plus Nitrate Total 1 Det. (As N)	102 lbs/day	167 lbs/day	-	-	-	Once/2 Weeks	Composite	BPJ
Phosphorus, Total (As P)	528 lbs/day	688 lbs/day	-	-	-	Once/2 Weeks	Composite	BPJ
Carbon, Tot Organic (TOC)	670 lbs/day	1260 lbs/day	-	-	-	3X Weekly test	Composite	BPJ
Chloride (As Cl)	-	-	-	6100 mg/l	9000 mg/l	Weekly	Composite	BPJ
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	BPJ
Chlorine, Total Residual	-	-	-	0.022 mg/l	0.039 mg/l	Weekly	Grab	WQBEL
Cyanide, Free Available	0.154 lbs/day	0.154 lbs/day	-	-	-	Monthly	Grab	WQBEL
Solids, Total Dissolved	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Composite	BPJ

* Dissolved Oxygen is to be tested instream below the process discharge.

001Q: Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
LF P/F Statre 7 Day Chr Cyprinodon Variega	-	-	-	-	0 pass(0)/fail(1)	Quarterly	Composite	WQBEL

001S: Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.

001S:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Nickel Total Recoverable	1.661 lbs/day	6.000 lbs/day	-	-	-	Twice Every 6 Months	Composite	WQBEL/ BPJ
Lead, Total Recoverable	0.237 lbs/day	1.130 lbs/day	-	-	-	Twice Every 6 Months	Composite	BPJ
Copper Total Recoverable	0.628 lbs/day	0.746 lbs/day	-	-	-	Twice Every 6 Months	Composite	WQBEL

001T: Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
P/F Statre 7 Day Chr Arbacia	-	-	-	-	0 pass(0)/fail(1)	Monthly	Composite	WQBEL

002S: North site storm water runoff from north non-process areas.

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
pH	-	-	REPORT S.U.	-	REPORT S.U.	Twice per Year	Grab	BPJ
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Oil & Grease	-	-	-	-	15.0 mg/l	Twice per Year	Grab	BPJ
Nitrogen, Ammonia Total (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Chloride (As Cl)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Twice per Year	Estimate	BPJ
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ

003S: North site storm water runoff from east non-process areas and storm water from non-process areas associated with the BASF and BCS facilities and hydrostatic test water from the BCS site.

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
pH			REPORT S.U.		REPORT S.U.	Twice per Year	Grab	BPJ
Solids, Total Suspended					REPORT mg/l	Twice per Year	Grab	BPJ
Oil & Grease	-	-	-	-	15.0 mg/l	Twice per Year	Grab	BPJ
Nitrogen, Ammonia Total (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ

Carbon, Tot Organic (TOC)				REPORT mg/l	Twice per Year	Grab	BPJ
Chloride (As Cl)				REPORT mg/l	Twice per Year	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD			Twice per Year	Estimate	BPJ
Solids, Total Dissolved				REPORT mg/l	Twice per Year	Grab	BPJ

005S: South site storm water runoff from non-process areas.

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
pH	-	-	REPORT S.U.	-	REPORT S.U.	Twice per Year	Grab	BPJ
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Oil & Grease	-	-	-	-	15.0 mg/l	Twice per Year	Grab	BPJ
Nitrogen, Ammonia Total (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Nitrite Plus Nitrate Total 1 Det. (As N)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Cyanide, Total (As CN)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Chloride (As Cl)	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant		REPORT MGD				Twice per Year	Estimate	BPJ
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Twice per Year	Grab	BPJ

01A1: Treated wastewater (south pond) resulting from the manufacture of inorganic chemicals.

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
pH	-	-	REPORT S.U.	-	REPORT S.U.	Daily	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	BPJ

01BS: Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

01BS:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Chromium, Total (As Cr)	6.008 lbs/day	14.993 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Zinc, Total (As Zn)	6.448 lbs/day	16.09 lbs/day	-	-	-	Twice Every 6 Months	Composite	BPJ
Carbon Tetrachloride	0.097 lbs/day	0.206 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
1,2-Dichloroethane	0.368 lbs/day	1.142 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Chloroform	0.114 lbs/day	0.249 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Toluene	0.141 lbs/day	0.433 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Benzene	0.20 lbs/day	0.736 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Acenaphthylene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Acenaphthene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every	Composite	EGL

						6 Months		
Acrylonitrile	0.029 lbs/day	0.058 lbs/day	-	-	-	Twice Every 6 Months	Grab	WQBEL
Anthracene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Benzo (K) Fluoranthene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months	Composite	WQBEL
Benzo (A) Pyrene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months	Composite	WQBEL
Chlorobenzene	0.081 lbs/day	0.152 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Chrysene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months	Composite	WQBEL
Diethyl Phthalate	0.438 lbs/day	1.099 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Dimethyl Phthalate	0.103 lbs/day	0.254 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Ethylbenzene	0.173 lbs/day	0.585 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Fluoranthene	0.135 lbs/day	0.368 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Fluorene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Hexachloroethane	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Methyl Chloride	0.465 lbs/day	1.028 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Methylene Chloride	0.217 lbs/day	0.482 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Nitrobenzene	0.146 lbs/day	0.368 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Phenanthrene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL

Pyrene	0.135 lbs/day	0.363 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Tetrachloroethylene	0.119 lbs/day	0.303 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
1,1-Dichloroethane	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
1,1-Dichloroethylene	0.087 lbs/day	0.135 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
1,1,1-Trichloroethane	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
1,1,2-Trichloroethane	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice per Year	Grab	EGL
Benzo (A) Anthracene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months	Composite	WQBEL
1,2-Dichlorobenzene	0.417 lbs/day	0.882 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
1,2-Dichloropropane	0.828 lbs/day	1.245 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
1,2-Trans-Dichloroethylene	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
1,2,4-Trichlorobenzene	0.368 lbs/day	0.758 lbs/day	-	-	-	Twice per Year	Composite	EGL
1,3-Dichlorobenzene	0.168 lbs/day	0.238 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
1,4-Dichlorobenzene	0.081 lbs/day	0.152 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
2-Chlorophenol	0.168 lbs/day	0.530 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
2-Nitrophenol	0.222 lbs/day	0.373 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
2,4-Dichlorophenol	0.211 lbs/day	0.606 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
2,4-Dimethylphenol	0.097 lbs/day	0.195 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL

2,4-Dinitrotoluene	0.080 lbs/day	0.400 lbs/day	-	-	-	Twice Every 6 Months	Composite	WQBEL
2,4-Dinitrophenol	0.384 lbs/day	0.666 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
2,6-Dinitrotoluene	1.38 lbs/day	3.470 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
4-Nitrophenol	0.390 lbs/day	0.671 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
4,6-Dinitro-O-Cresol	0.422 lbs/day	1.499 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Phenol, Single Compound	0.081 lbs/day	0.141 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Naphthalene	0.119 lbs/day	0.319 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Bis (2-Ethylhexyl) Phthalate	0.2583 lbs/day	0.5166 lbs/day	-	-	-	Twice Every 6 Months	Composite	WQBEL
Di-N-Butyl Phthalate	0.146 lbs/day	0.309 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Vinyl Chloride	0.287 lbs/day	0.574 lbs/day	-	-	-	Twice Every 6 Months	Grab	WQBEL
Trichloroethylene	0.114 lbs/day	0.292 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
Hexachlorobenzene	0.000034 lbs/day	0.000068 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
Hexachlorobutadiene	0.108 lbs/day	0.265 lbs/day	-	-	-	Twice Every 6 Months	Composite	EGL
1,3 Dichloropropene	0.157 lbs/day	0.238 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL
3,4 Benzofluoranthene	0.0021 lbs/day	0.0042 lbs/day	-	-	-	Twice Every 6 Months	Composite	WQBEL
Chloroethane	0.563 lbs/day	1.451 lbs/day	-	-	-	Twice Every 6 Months	Grab	EGL

*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

Discussion

DSN001: Treated process wastewater from DSN001a and 001b, boiler blowdown, non-contact cooling water, cooling tower blowdown, contaminated storm water and treated groundwater.

Some of the parameters regulated under this permit are based on the parameters of concern listed in EPA forms 2C and 2F and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. The parameters with specific limits are discussed below:

Temperature
The existing limit of 90° F is proposed to be continued as this limit is protective of the water quality standard.

Dissolved Oxygen
The minimum dissolved oxygen level for estuaries and tidal tributaries is 5.5 mg/l except in dystropic waters or where natural conditions cause the value to be depressed. Based on years of data, the natural conditions that exist in the barge canal make it difficult to meet the minimum of 5.5 mg/l with or without the presence of this discharge. The permit will continue to require that the dissolved oxygen level downstream of the discharge be monitored 3 times per week during the summer peak season (May through November) and once per week during the winter season (December through April). In addition, monitoring will be required during all periods when the dissolved oxygen is measured below 5.0 mg/l at the depth of 1.5 meter. When the D.O. is below 5.0 mg/l, the permittee must cease discharge of process wastewaters into the canal until such time as the dissolved oxygen level rises to a minimum of 5.0 mg/l.

Total Suspended Solids (TSS) and Biochemical Oxygen Demand (BOD5)
Total Suspended Solids (TSS) and Biochemical Oxygen Demand (BOD5) have BPT limitations established under the Bulk Organic Chemicals (40CFR Part 414.71) and the Specialty Chemicals (40CFR 414.81) of the OCPSF regulations. BPT calculations are attached. BPT calculations are also attached for the TSS limitations established in association with the production of Hydrogen Peroxide under 40CFR Part 415.92. The existing limits for BOD are more stringent than those calculated based on guideline requirements; therefore it is proposed for existing limits to be continued. For TSS, guideline based limits are more stringent than existing limits. The less stringent requirement contained in previous permits was based on the concern that a significant mass of TSS could be contributed by non-regulated waste streams that also discharge through this outfall. A review of the DMR data for the past five years reveals that the levels of TSS measured at outfall DSN001 are significantly less than TSS limits determined by guidelines. For this reason, guideline based limits are proposed in this issuance.

pH
ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09 – Specific Water Quality for Fish & Wildlife classified streams states: "Sewage, industrial waste or other wastes shall not cause the pH to deviate more than one unit from then normal or natural pH, nor be less than 6.0, nor greater than 8.5 standard units." The existing limits of 6 to 9 s.u. have been shown to be protective of the WQ standard and are proposed to be continued.

Ammonia as N
The existing limits were developed to be protective of water quality. Although the 2019 DIZ study performed by the permittee indicated that Dissolved Oxygen levels in the barge canal on occasion falls below the water quality standard of 5.5 mg/l at 1.5m depth, it is difficult to determine if these low D.O. measurements are due to the organic loading (NH3-N & BOD5) in the company's discharge or as the result of the natural occurrence of low D.O. caused by the tidal effect in the canal. The receiving stream is on the 303(d) list for organic enrichment. It has been determined that the appropriate permitting approach is to hold the loading at existing levels by continuing current Ammonia, TKN and BOD5 limits (components of NBOD and CBOD).

Total Phosphorus, TKN and Nitrite + Nitrates
Nutrient monitoring is required of all facilities classified as majors. This data will be used to develop future stream standards. For this reason existing monitoring will be continued in this permit.

Existing limits were based on treatability studies performed by the company and have been in place for the last couple of permit cycles to ensure that the present nutrient loading was maintained. The 2019 DIZ study performed by the company indicated that this discharge may be contributing to nutrient enrichment due to incidents of algal blooms in the area. It is proposed to maintain the current limits; however, this draft proposes a requirement to perform a Phosphorus minimization study to evaluate available options to reduce the loading of this pollutant.

Total Organic Carbon
40CFR Part 415 BPT calculations (see attachment) for Hydrogen Peroxide production allow limits of 267.22 lbs/day (daily max) and 133.61 lbs/day (monthly average) based on a production rate of 607,325 lbs/day (highest production month in the past 12 months). However, wastewaters from this production commingle with wastewaters from the production of organic products which also contain sources of TOC. Therefore, based on previously submitted treatability data, existing BPJ based limits included in the previous permit are proposed to be continued in this issuance. Proposed BPJ limits are 1260 lbs/day (daily max) and 670 lbs/day (monthly average).

Total Chlorides and Total Dissolved Solids (TDS)
The existing limits for Total Chlorides are proposed to be continued as these levels will not increase the concentration of Chlorides in the canal above background levels. In general the discharge of wastewater at or below the permit limits will enhance the separation of canal water and wastewater and thereby ensure movement of wastewater out of the canal (as discussed in the previous modeling effort). TDS monitoring will also be continued without the establishment of a permit limit since Chlorides is the major component of TDS.

Total Residual Chlorine
The existing limits were previously established to ensure that the instream marine WQ standards of 0.013 mg/l and 0.075 mg/l were protected. The previous dye study was the basis for the development of these limits. 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.

Cyanide
The existing limit was based on the dye study and discharge levels necessary to protect the instream water quality standard of 0.001 mg/l (marine water quality criterion). The existing limit of 0.154 lbs/day (daily max & monthly average) shall be continued in this issuance.

Copper, Lead, Nickel
Limits for Copper, Lead and Nickel are based on the more stringent of limits calculated using marine water quality criteria and existing limits. These requirements are established at outfall DSN001 instead of DSN01A to account for metals generated from all sources. Calculations are attached to this rationale. Quarterly monitoring is proposed to be continued.

Biomonitoring
Due to the potential for toxicity from synergistic effects, chronic biomonitoring will be continued in this permit. Testing will be performed at an IWC of 25% as is currently required. The actual IWC is lower than 25%; however to comply with anti-backsliding rules, the current requirement will be continued. Testing will be performed using saltwater species due to the nature of the receiving stream. The effluent has not been shown to be toxic based on testing performed during the past five years. It is proposed to continue the testing frequency at quarterly for the Sheephead minnow test. The sea urchin test will continue to be performed on a monthly basis.

Reasonable Potential
A reasonable potential analysis was performed for the pollutants shown to be present on the Form 2C and the results indicate that these pollutants are not present at levels that require the inclusion of permit limitations to ensure protection of water quality.

Discharge Information Zone (DIZ) Requirements
In accordance with ADEM Coastal Program Regulations, the permittee will continue to conduct surveys of the established DIZ. Surveys are to be conducted on an annual basis.

316(b) Requirements
The sources of water utilized in Evonik's operation are 0.5 MGD from the Mobile water system and 0.5 MGD from each of 3 company wells. Evonik does not own or operate a surface water intake; therefore, this facility is exempt from 316(b) requirements.

DSN001A: Treated wastewater (south pond) resulting from the manufacture of inorganic chemicals

Wastewater discharged through this outfall consists of process water from the manufacture of Aerosil and Dispersions. This production is not regulated by federal guidelines. No biological treatment is utilized for this wastewater. The treatment system consists of pH neutralization and sedimentation.

Best Professional Judgment (BPJ)
Some of the parameters regulated under this permit are based on the parameters of concern listed in EPA forms 2C and 2F and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. The parameters with specific limits are discussed below:

pH
Existing pH monitoring requirements of "REPORT" are proposed to be continued in this issuance.

DSN001B: Biological and high TDS treatment systems effluent including treated process wastewaters from the manufacture of organic and inorganic chemicals, contaminated storm water and treated groundwater.

Wastewater discharged through this outfall consists of process wastewater from the North site and South site. Wastewater generated from the North site results from the manufacture of products including Acetocyanohydrin, Methylmercaptoproprionaldehyde, Tertiary Butyl Hydrogen Peroxide, Tertiary Butyl Alcohol, Methionine, QUAB (Quaternary Ammonium Bases), S169/230/203, Hydrocyanic Acid, Hydrogen Peroxide, Acrolein, Aminoalkyalkoxysilane, Sodium Polysulfide and Ammonium Sulfate. Wastewaters generated at the South site are associated with the manufacture of Isophorones, Polyisocyanate, Methylacrylate Products and Sodium Methylate.

The treatment system consists of neutralization, activated sludge, nitrification and denitrification, clarification, artificial marsh (rock reed) and pressure filtration. Process wastewaters typically high in TDS will receive separate treatment consisting of neutralization, activated sludge, and clarification. This system receives a portion of the utility water from the North site to lower TDS to an acceptable level such that biological treatment will not be inhibited.

BPT Effluent Guideline Requirements

The applicable categories regulated under OCPSF guidelines (40CFR Part 414) are Bulk Organic (Subpart G) and Specialty Organic (Subpart H). The organic streams covered under these guidelines are commingled and co-treated with the inorganic waste streams. Of the inorganic sources only Hydrogen Peroxide is subject to effluent guidelines. This production is subject to the Inorganic Chemical Manufacturing Category Subpart I – Hydrogen Peroxide Process. Hydrocyanic Acid (Hydrogen Cyanide) production is not subject to 40CFR 414.420 since the Andrussow process is not used.

As discussed above, the guideline based mass limitations for TSS, TOC and BOD5 are imposed at the combined discharges from both sources at the final outfall (DSN001).

BAT Effluent Guideline Requirements

Calculations for BAT limitations for OCPSF parameters are shown on the attached spreadsheet. Flows are based on Long Term Average (LTA) flows for each source. The calculated limits were compared to existing limits and limits based on marine water quality and human health criteria. The most stringent of these is proposed in this reissuance. For parameters with the monthly average based on water quality and/or human health standards, the daily maximum is established at twice the monthly average based on a peaking factor of two.

Limits for Copper, Lead and Nickel are based on the more stringent of marine water quality criteria or existing limits. These requirements are established at outfall DSN001 instead of DSN01B to account for metals generated from all sources. Limitations for all three metals are more stringent than requirements based on OCPSF guidelines. The Cyanide limits which are based on the marine water quality standard of 0.001 mg/l (acute and chronic) are more stringent than OCPSF guidelines. Cyanide is also regulated at outfall DSN001 to account for all sources of this pollutant.

Stormwater Discharges

The receiving stream for outfalls DSN002, 003 and 005 is an unnamed tributary to Middle Fork Deer River, which is classified as F&W. The 7Q10 and 1Q10 flows are 0.0 cfs. Outfalls 002 and 003 receive stormwater runoff from non-process areas from the north site. Outfall 005 receives stormwater runoff from non-process areas on the south site.

DSN002: North site stormwater runoff from north non-process areas, DSN003: North site stormwater runoff from north non-process areas, and DSN005: South site stormwater runoff from south non-process areas

Best Management Practices (BMPs)

Best Management Practices (BMPs) are believed to be the most effective way to control the contamination of storm water 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.

Conventional Pollutant Monitoring

To determine the effectiveness of the BMP plan, the permittee will be required to continue monitoring the following pollutants of concern: pH, TOC, TSS, Oil & Grease, TDS, Total Chlorides and NH3-N. The permit will continue to include a daily maximum limit for Oil and Grease. Compliance with this limit should prevent the occurrence of a visible sheen in the stream and this limit has been shown to be achievable through the use of proper BMPs.

Facility Name: Evonik

NPDES No.: AL0023272

Marine F&W classification.					Max Daily Discharge as reported by Applicant (C_{max})	Marine Acute (µg/l) 1Q10 for F&W up				Background from upstream source (Cd2) Monthly Ave	Avg Daily Discharge as reported by Applicant (C_{avg})	Marine Chronic (µg/l) 7Q10				Human Health Consumption Fish only (ug/l) Carcinogen Q_s = Annual Average Non-Carcinogen Q_s = 7Q10			
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (Cd2) Daily Max		Water Quality Criteria (C_t)	Draft Permit Limit (C_{max})	20% of Draft Permit Limit	RP?			Water Quality Criteria (C_t)	Draft Permit Limit (C_{avg})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C_t)	Draft Permit Limit (C_{avg})	20% of Draft Permit Limit	RP?
1	Antimony			0	0	-	-	-	-	0	0	-	-	-	-	3.73E+02	5.26E+03	1.05E+03	No
2	Arsenic		YES	0	0	69	748.867	149.37347	No	0	0	36	507.560	101.511979	No	3.03E-01	4.27E+00	8.54E-01	No
3	Berylium			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
4	Cadmium			0	0	40	432.967	86.5933157	No	0	0	8.8	124.070	24.8140393	No	-	-	-	-
5	Chromium/ Chromium III			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
6	Chromium/ Chromium VI			0	0	1100	11906.581	2381.31618	No	0	0	50	704.944	140.988858	No	-	-	-	-
7	Copper			0	0	4.8	51.956	10.3911979	No	0	0	3.1	43.707	8.74130929	No	1.30E+03	1.83E+04	3.67E+03	No
8	Lead			0	0	210	2273.075	454.614907	No	0	0	8.1	114.201	22.8401952	No	-	-	-	-
9	Mercury			0	0	2.1	22.731	4.54614907	No	0	0	0.025	0.352	0.07048443	No	4.24E-02	5.98E-01	1.20E-01	No
10	Nickel			0	0.0057	74	800.988	160.197634	No	0	0.0057	8.2	115.611	23.122173	No	9.93E+02	1.40E+04	2.80E+03	No
11	Selenium			0	0	290	3139.008	627.801539	No	0	0	71	1001.021	200.20418	No	2.43E+03	3.43E+04	6.85E+03	No
12	Silver			0	0	1.9	20.566	4.11318249	No	0	0	-	-	-	-	-	-	-	-
13	Thallium			0	0	-	-	-	-	0	0	-	-	-	-	2.74E-01	3.86E+00	7.71E-01	No
14	Zinc			0	0.0059	90	974.175	194.83496	No	0	0.0059	81	1142.010	228.401952	No	1.49E+04	2.10E+05	4.20E+04	No
15	Cyanide			0	0	0.13	1.407	0.28142828	No	0	0	0.001	0.014	0.00281978	No	9.33E+03	1.32E+05	2.63E+04	No
16	Total Phenolic Compounds			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
17	Hardness (As CaCO3)			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
18	Acrolein			0	0	-	-	-	-	0	0	-	-	-	-	5.43E+00	7.65E+01	1.53E+01	No
19	Acrylonitrile		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.44E-01	2.03E+00	4.06E-01	No
20	Aldrin		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.94E-05	4.14E-04	8.29E-05	No
21	Benzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.55E+01	2.18E+02	4.36E+01	No
22	Bromoform		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.88E+01	1.11E+03	2.22E+02	No
23	Carbon Tetrachloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.57E-01	1.35E+01	2.70E+00	No
24	Chlordane		YES	0	0	-	-	-	-	0	0	-	-	-	-	4.73E-04	6.67E-03	1.33E-03	No
25	Clorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	9.06E+02	1.28E+04	2.56E+03	No
26	Chlorodibromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.41E+00	1.04E+02	2.09E+01	No
27	Chloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
28	2-Chloro-Ethylvinyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
29	ChloroForm		YES	0	0.003	-	-	-	-	0	0.003	-	-	-	-	1.02E+02	1.44E+03	2.88E+02	No
30	4,4' - DDD		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.81E-04	2.56E-03	5.11E-04	No
31	4,4' - DDE		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	1.81E-03	3.61E-04	No
32	4,4' - DDT		YES	0	0	0.13	1.407	0.28142828	No	0	0	0.001	0.014	0.00281978	No	1.28E-04	1.81E-03	3.61E-04	No
33	Dichlorobromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.00E+01	1.41E+02	2.83E+01	No
34	1, 1-Dichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
35	1, 2-Dichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.14E+01	3.01E+02	6.03E+01	No
36	Trans-1, 2-Dichloro-Ethylene			0	0	-	-	-	-	0	0	-	-	-	-	5.91E+03	8.33E+04	1.67E+04	No
37	1, 1-Dichloroethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	4.17E+03	5.87E+04	1.17E+04	No
38	1, 2-Dichloropropane			0	0	-	-	-	-	0	0	-	-	-	-	8.49E+00	1.20E+02	2.40E+01	No
39	1, 3-Dichloro-Propylene			0	0	-	-	-	-	0	0	-	-	-	-	1.23E+01	1.73E+02	3.46E+01	No
40	Dieldrin		YES	0	0	0.71	7.685	1.53703135	No	0	0	0.0019	0.027	0.00535758	No	3.12E-05	4.40E-04	8.81E-05	No
41	Ethylbenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.24E+03	1.75E+04	3.51E+03	No
42	Methyl Bromide			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+02	1.23E+04	2.46E+03	No
43	Methyl Chloride			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
44	Methylene Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.46E+02	4.87E+03	9.75E+02	No
45	1, 1, 2, 2-Tetrachloro-Ethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.33E+00	3.29E+01	6.58E+00	No
46	Tetrachloro-Ethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	2.70E+01	5.41E+00	No
47	Toluene			0	0	-	-	-	-	0	0	-	-	-	-	8.72E+03	1.23E+05	2.46E+04	No
48	Toxaphene		YES	0	0	0.21	2.273	0.45461491	No	0	0	0.0002	0.003	0.00056396	No	1.62E-04	2.28E-03	4.57E-04	No
49	Tributyltin (TBT)		YES	0	0	0.42	4.546	0.90922981	No	0	0	0.0074	0.104	0.02086635	No	-	-	-	-
50	1, 1, 1-Trichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
51	1, 1, 2-Trichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.10E+00	1.28E+02	2.57E+01	No
52	Trichlorethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.75E+01	2.46E+02	4.93E+01	No
53	Vinyl Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.42E+00	2.01E+01	4.02E+00	No
54	P-Chloro-M-Cresol			0	0	13	140.714	28.1428276	No	0	0	7.9	111.381	22.2762398	No	-	-	-	-
55	2-Chlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+01	1.23E+03	2.46E+02	No
56	2, 4-Dichlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	1.72E+02	2.42E+03	4.85E+02	No
57	2, 4-Dimethylphenol			0	0	-	-	-	-	0	0	-	-	-	-	4.96E+02	7.01E+03	1.40E+03	No
58	4, 6-Dinitro-O-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
59	2, 4-Dinitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	4.39E+04	8.77E+03	No
60	4,6-Dinitro-2-methylphenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.65E+02	2.33E+03	4.67E+02	No
61	Dioxin (2,3,7,8-TCDD)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.67E-08	3.76E-07	7.52E-08	No
62	2-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
63	4-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
64	Pentachlorophenol		YES	0	0	13	140.714	28.1428276	No	0	0	7.9	111.381	22.2762398	No	1.77E+00	2.49E+01	4.98E+00	No
65	Phenol			0	0	-	-	-	-	0	0	-	-	-	-	5.00E+05	7.05E+06	1.41E+06	No
66	2, 4, 6-Trichlorophenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.41E+00	1.99E+01	3.99E+00	No
67	Acenaphthene			0	0	-	-	-	-	0	0	-	-	-	-	5.79E+02	8.16E+03	1.63E+03	No
68	Acenaphthylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
69	Anthracene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+04	3.29E+05	6.58E+04	No
70	Benzidine			0	0	-	-	-	-	0	0	-	-	-	-	1.16E-04	1.63E-03	3.27E-04	No
71	Benzo(A)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.50E-01	3.00E-02	No
72	Benzo(A)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.50E-01	3.00E-02	No
73	3, 4 Benzo-Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.50E-01	3.00E-02	No
74	Benzo(GHI)Perylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
75	Benzo(K)Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.50E-01	3.00E-02	No
76	Bis (2-Chloroethoxy) Methane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
77	Bis (2-Chloroethyl)-Ether		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.07E-01	4.33E+00	8.67E-01	No
78	Bis (2-Chloroiso-Propyl) Ether			0	0	-	-	-	-	0	0	-	-	-	-	3.78E+04	5.33E+05	1.07E+05	No
79	Bis (2-Ethylhexyl) Phthalate		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E+00	1.81E+01	3.62E+00	No
80	4-Bromophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
81	Butyl Benzyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	1.13E+03	1.59E+04	3.18E+03	No
82	2-Chloronaphthalene			0	0	-	-	-	-	0	0	-	-	-	-	9.24E+02	1.30E+04	2.61E+03	No
83	4-Chlorophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
84	Chrysene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.50E-01	3.00E-02	No
85	Di-N-Butyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.62E+03	3.70E+04	7.39E+03	No
86	Di-N-Octyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
87	Dibenzo(A,H)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.50E-01	3.00E-02	No
88	1, 2-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	7.55E+02	1.07E+04	2.13E+03	No
89	1, 3-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	5.62E+02	7.93E+03	1.59E+03	No
90	1, 4-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.12E+02	1.58E+03	3.17E+02	No
91	3, 3-Dichlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.66E-02	2.34E-01	4.69E-02	No
92	Diethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.56E+04	3.61E+05	7.21E+04	No
93	Dimethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	6.48E+05	9.14E+06	1.83E+06	No
94	2, 4-Dinitrotoluene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.98E+00	2.79E+01	5.58E+00	No
95	2, 6-Dinitrotoluene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
96	1,2-Diphenylhydrazine			0	0	-	-	-	-	0	0	-	-	-	-	1.17E-01	1.65E+00	3.30E-01	No
97	Endosulfan (alpha)		YES	0	0	0.034	0.368	0.07360432	No	0	0	0.0087	0.123	0.02453206	No	5.19E+01	7.31E+02	1.46E+02	No
98	Endosulfan (beta)		YES	0	0	0.034	0.368	0.07360432	No	0	0	0.0087	0.123	0.02453206	No	5.19E+01	7.31E+02	1.46E+02	No
99	Endosulfan sulfate		YES	0	0	-	-	-	-	0	0	-	-	-	-	5.19E+01	7.31E+02	1.46E+02	No
100	Endrin		YES	0	0	0.037	0.400	0.08009882	No	0	0	0.0023	0.032	0.00648549	No	3.53E-02	4.97E-01	9.94E-02	No
101	Endrin Aldeyhde		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E+00	2.49E+01	4.97E+00	No
102	Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	8.12E+01	1.14E+03	2.29E+02	No
103	Fluorene			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	4.39E+04	8.77E+03	No
104	Heptochlor		YES	0	0	0.053	0.574	0.11473614	No	0	0	0.0036	0.051	0.0101512	No	4.63E-05	6.53E-04	1.31E-04	No
105	Heptachlor Epoxide		YES	0	0	0.053	0.574	0.11473614	No	0	0	0.0036	0.051	0.0101512	No	2.29E-05	3.23E-04	6.48E-05	No
106	Hexachlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.68E-04	2.37E-03	4.73E-04	No
107	Hexachlorobutadiene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.06E+01	1.52E+02	3.03E+01	No
108	Hexachlorocyclohexan (alpha)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.85E-03	4.02E-02	8.03E-03	No
109	Hexachlorocyclohexan (beta)		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.97E-03	1.41E-01	2.81E-02	No
110	Hexachlorocyclohexan (gamma)		YES	0	0	0.16	1.732	0.34637326	No	0	0	-	-	-	-	1.08E+00	1.52E+01	3.04E+00	No
111	HexachlorocyclcPentadiene			0	0	-	-	-	-	0	0	-	-	-	-	6.45E+02	9.10E+03	1.82E+03	No
112	Hexachloroethane			0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	2.70E+01	5.41E+00	No
113	Indeno(1, 2, 3-CK)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.50E-01	3.00E-02	No
114	Isophorone			0	0.0097	-	-	-	-	0	0.0097	-	-	-	-	5.61E+02	7.91E+03	1.58E+03	No
115	Naphthalene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
116	Nitrobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.04E+02	5.69E+03	1.14E+03	No
117	N-Nitrosodi-N-Propylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.95E-01	4.16E+00	8.32E-01	No
118	N-Nitrosodi-N-Methylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.78E+00	2.48E+01	4.96E+00	No
119	N-Nitrosodi-N-Phenylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.50E+00	4.94E+01	9.87E+00	No
120	PCB-1016		YES	0	0	-	-	-	-	0	0	0.03	0.423	0.08459332	No	3.74E-05	5.27E-04	1.05E-04	No
121	PCB-1221		YES	0	0	-	-	-	-	0	0	0.03	0.423	0.08459332	No	3.74E-05	5.27E-04	1.05E-04	No
122	PCB-1232		YES	0	0	-	-	-	-	0	0	0.03	0.423	0.08459332	No	3.74E-05	5.27E-04	1.05E-04	No
123	PCB-1242		YES	0	0	-	-	-	-	0	0	0.03	0.423	0.08459332	No	3.74E-05	5.27E-04	1.05E-04	No
124	PCB-1248		YES	0	0	-	-	-	-	0	0	0.03	0.423	0.08459332	No	3.74E-05	5.27E-04	1.05E-04	No
125	PCB-1254		YES	0	0	-	-	-	-	0	0	0.03	0.423	0.08459332	No	3.74E-05	5.27E-04	1.05E-04	No
126	PCB-1260		YES	0	0	-	-	-	-	0	0	0.03	0.423	0.08459332	No	3.74E-05	5.27E-04	1.05E-04	No
127	Phenanthrene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
128	Pyrene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+03	3.29E+04	6.58E+03	No
129	1, 2, 4-Trichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.09E+01	5.77E+02	1.15E+02	No

Facility Name: **Evonik**

NPDES No.: **AL0023272**

$$Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$$

ID	Pollutant	Carcinogen "yes"	Type	Background from upstream source (C_{d2}) Daily Max	Background from upstream source (C_{d2}) Monthly Ave	Background Instream (C_s) Daily Max	Background Instream (C_s) Monthly Ave	Enter Max Daily Discharge as reported by Applicant (C_{dmax})	Enter Avg Daily Discharge as reported by Applicant (C_{davg})	Partition Coefficient (Stream / Lake)
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
1	Antimony		Metals	0	0	0	0	0	0	-
2	**Arsenic*,****	YES	Metals	0	0	0	0	0	0	0.574
3	Beryllium		Metals	0	0	0	0	0	0	-
4	Cadmium**		Metals	0	0	0	0	0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0	
7	Copper**		Metals	0	0	0	0	0	0	0.388
8	Lead**		Metals	0	0	0	0	0	0	0.467
9	Mercury**		Metals	0	0	0	0	0	0	0.000
10	Nickel**		Metals	0	0	0	0	0	0	0.505
11	Selenium		Metals	0	0	0	0	0	0	-
12	Silver		Metals	0	0	0	0	0	0	-
13	Thallium		Metals	0	0	0	0	0	0	-
14	Zinc**		Metals	0	0	0	0	120	82	0.330
15	Cyanide		Metals	0	0	0	0	0	0	-
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0	-
17	Hardness (As CaCO3)		Metals	0	0	0	0	0	0	-
18	Acrolein		VOC	0	0	0	0	0	0	-
19	**Acrylonitrile***	YES	VOC	0	0	0	0	0	0	-
20	**Aldrin**	YES	VOC	0	0	0	0	0	0	-
21	**Benzene***	YES	VOC	0	0	0	0	0	0	-
22	**Bromoform***	YES	VOC	0	0	0	0	0	0	-
23	**Carbon Tetrachloride***	YES	VOC	0	0	0	0	0	0	-
24	**Chlordane**	YES	VOC	0	0	0	0	0	0	-
25	Clorobenzene		VOC	0	0	0	0	0	0	-
26	**Chlorodibromo-Methane***	YES	VOC	0	0	0	0	0	0	-
27	Chloroethane		VOC	0	0	0	0	0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	-
29	**ChloroForm***	YES	VOC	0	0	0	0	0	0	-
30	**4,4'-DDD**	YES	VOC	0	0	0	0	0	0	-
31	**4,4'-DDE**	YES	VOC	0	0	0	0	0	0	-
32	**4,4'-DDT**	YES	VOC	0	0	0	0	0	0	-
33	**Dichlorobromo-Methane***	YES	VOC	0	0	0	0	0	0	-
34	1, 1-Dichloroethane		VOC	0	0	0	0	0	0	-
35	**1, 2-Dichloroethane***	YES	VOC	0	0	0	0	0	0	-
36	Trans-1, 2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	-
37	**1, 1-Dichloroethylene***	YES	VOC	0	0	0	0	0	0	-
38	1, 2-Dichloropropane		VOC	0	0	0	0	0	0	-
39	1, 3-Dichloro-Propylene		VOC	0	0	0	0	0	0	-
40	**Dieldrin**	YES	VOC	0	0	0	0	0	0	-
41	Ethylbenzene		VOC	0	0	0	0	0	0	-
42	Methyl Bromide		VOC	0	0	0	0	0	0	-
43	Methyl Chloride		VOC	0	0	0	0	0	0	-
44	**Methylene Chloride***	YES	VOC	0	0	0	0	0	0	-
45	**1, 1, 2, 2-Tetrachloro-Ethane***	YES	VOC	0	0	0	0	0	0	-
46	**Tetrachloro-Ethylene***	YES	VOC	0	0	0	0	0	0	-
47	Toluene		VOC	0	0	0	0	0	0	-
48	**Toxaphene**	YES	VOC	0	0	0	0	0	0	-
49	**Tributyltine (TBT)**	YES	VOC	0	0	0	0	0	0	-
50	1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0	-
51	**1, 1, 2-Trichloroethane***	YES	VOC	0	0	0	0	0	0	-
52	**Trichlorethylene***	YES	VOC	0	0	0	0	0	0	-
53	**Vinyl Chloride***	YES	VOC	0	0	0	0	0	0	-
54	P-Chloro-M-Cresol		Acids	0	0	0	0	0	0	-
55	2-Chlorophenol		Acids	0	0	0	0	0	0	-
56	2, 4-Dichlorophenol		Acids	0	0	0	0	0	0	-
57	2, 4-Dimethylphenol		Acids	0	0	0	0	0	0	-
58	4, 6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	-
59	2, 4-Dinitrophenol		Acids	0	0	0	0	0	0	-
60	**4,6-Dintro-2-methylophenol**	YES	Acids	0	0	0	0	0	0	-
61	**Dioxin (2,3,7,8-TCDD)**	YES	Acids	0	0	0	0	0	0	-
62	2-Nitrophenol		Acids	0	0	0	0	0	0	-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	-
64	**Pentachlorophenol***	YES	Acids	0	0	0	0	0	0	-
65	Phenol		Acids	0	0	0	0	0	0	-
66	**2, 4, 6-Trichlorophenol***	YES	Acids	0	0	0	0	0	0	-
67	Acenaphthene		Bases	0	0	0	0	0	0	-
68	Acenaphthylene		Bases	0	0	0	0	0	0	-
69	Anthracene		Bases	0	0	0	0	0	0	-
70	Benzidine		Bases	0	0	0	0	0	0	-
71	**Benzo(A)Anthracene***	YES	Bases	0	0	0	0	0	0	-
72	**Benzo(A)Pyrene***	YES	Bases	0	0	0	0	0	0	-
73	3, 4 Benzo-Fluoranthene		Bases	0	0	0	0	0	0	-
74	Benzo(GHI)Perylene		Bases	0	0	0	0	0	0	-
75	Benzo(K)Fluoranthene		Bases	0	0	0	0	0	0	-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	-
77	**Bis (2-Chloroethyl)-Ether***	YES	Bases	0	0	0	0	0	0	-
78	Bis (2-Chloroiso-Propyl) Ether		Bases	0	0	0	0	0	0	-
79	**Bis (2-Ethylhexyl) Phthalate***	YES	Bases	0	0	0	0	0	0	-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0	-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
84	**Chrysene***	YES	Bases	0	0	0	0	0	0	-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	-
87	**Dibenzo(A,H)Anthracene***	YES	Bases	0	0	0	0	0	0	-
88	1, 2-Dichlorobenzene		Bases	0	0	0	0	0	0	-
89	1, 3-Dichlorobenzene		Bases	0	0	0	0	0	0	-
90	1, 4-Dichlorobenzene		Bases	0	0	0	0	0	0	-
91	**3, 3-Dichlorobenzene***	YES	Bases	0	0	0	0	0	0	-
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	-
94	**2, 4-Dinitrotoluene***	YES	Bases	0	0	0	0	0	0	-
95	2, 6-Dinitrotoluene		Bases	0	0	0	0	0	0	-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	-
97	**Endosulfan (alpha)**	YES	Bases	0	0	0	0	0	0	-
98	**Endosulfan (beta)**	YES	Bases	0	0	0	0	0	0	-
99	**Endosulfan sulfate**	YES	Bases	0	0	0	0	0	0	-
100	**Endrin**	YES	Bases	0	0	0	0	0	0	-
101	**Endrin Aldeyhide**	YES	Bases	0	0	0	0	0	0	-
102	Fluoranthene		Bases	0	0	0	0	0	0	-
103	Fluorene		Bases	0	0	0	0	0	0	-
104	Heptochlor	YES	Bases	0	0	0	0	0	0	-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	-
106	**Hexachlorobenzene***	YES	Bases	0	0	0	0	0	0	-
107	**Hexachlorobutadiene***	YES	Bases	0	0	0	0	0	0	-
108	**Hexachlorocyclohexan (alpa)**	YES	Bases	0	0	0	0	0	0	-
109	**Hexachlorocyclohexan (beta)**	YES	Bases	0	0	0	0	0	0	-
110	**Hexachlorocyclohexan (gamma)**	YES	Bases	0	0	0	0	0	0	-
111	HexachlorocycloPentadiene		Bases	0	0	0	0	0	0	-
112	Hexachloroethane		Bases	0	0	0	0	0	0	-
113	**Indeno(1, 2, 3-CK)Pyrene***	YES	Bases	0	0	0	0	0	0	-
114	Isophorone		Bases	0	0	0	0	0	0	-
115	Naphthalene		Bases	0	0	0	0	0	0	-
116	Nitrobenzene		Bases	0	0	0	0	0	0	-
117	**N-Nitrosodi-N-Propylamine***	YES	Bases	0	0	0	0	0	0	-
118	**N-Nitrosodi-N-Methylamine***	YES	Bases	0	0	0	0	0	0	-
119	**N-Nitrosodi-N-Phenylamine***	YES	Bases	0	0	0	0	0	0	-
120	**PCB-1016**	YES	Bases	0	0	0	0	0	0	-
121	**PCB-1221**	YES	Bases	0	0	0	0	0	0	-
122	**PCB-1232**	YES	Bases	0	0	0	0	0	0	-
123	**PCB-1242**	YES	Bases	0	0	0	0	0	0	-
124	**PCB-1248**	YES	Bases	0	0	0	0	0	0	-
125	**PCB-1254**	YES	Bases	0	0	0	0	0	0	-
126	**PCB-1260**	YES	Bases	0	0	0	0	0	0	-
127	Phenanthrene		Bases	0	0	0	0	0	0	-
128	Pyrene		Bases	0	0	0	0	0	0	-
129	1, 2, 4-Trichlorobenzene		Bases	0	0	0	0	0	0	-

1.723	Enter Q_d = wastewater discharge flow from facility (MGD)
2.665876	Q_d = wastewater discharge flow (cfs) (this value is caluclated from the MGD)
0	**Enter or estimated,** Qd2 = background stream flow from upstream source (cfs)
34.92	Enter 7Q10, Q_s = background stream flow in cfs above point of discharge
26.19	**Enter or estimated,** 1Q10, Q_s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
0	**Enter flow from upstream discharge** Qd2 = background stream flow in MGD above point of discharge
34.92	Enter Mean Annual Flow, Q_s = background stream flow in cfs above point of discharge
34.92	Enter 7Q2, Q_s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	Enter C_s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q_s +Qd2+Q_d	Q_r = resultant in-stream flow, after discharge
Calculated on other sheets	C_r = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
50	Enter, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	Enter, Background pH above point of discharge
YES	Enter, Is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

** Using Partition Coefficients

June 24, 2020

OCPSF PERMIT LIMITS CALCULATIONS

FACILITY NAME : Evoniks Corporation

LOCATION : Theodore, AL

NPDES NUMBER : AL0023272

IS THIS A RAYON MANUFACTURING FACILITY THAT USES THE VISCOSE PROCESS OR AN ACRYLIC MANUFACTURER THAT USES THE ZINC CHLORIDE/SOLVENT PROCESS (YES =0, NO =1)	1
DOES THIS FACILITY USE END-OF-PIPE BIOLOGICAL TREATMENT (SUBPART I) (YES =0, NO =1)	0

OCPSF PRODUCT	SIC CODE	Avg Daily Prod MILLION LBS/Day	PROCESS WASTE FLOW MGD
Subpart B Rayon Fibers		0	0
Subpart C Other Fibers		0	0
Subpart D Thermoplastic Resins		0	0
Subpart E Thermosetting Resins		0	0
Subpart F Commodity Organic Chemicals		0	0
Subpart G Bulk Organic		2.477	0.577
Subpart H Specialty Organic		298.59	0.2714
OCPSF RELATED FLOWS	TOTAL	301.07	0.8484

FLOW FROM OTHER SOURCES (e.g. POTWs)	0	MGD
TOTAL FLOW FROM PROCESS, NON-PROCESS AND OTHER SOURCES	1.7234	MGD
RECEIVING STREAM 1Q10	26.19	CFS
RECEIVING STREAM 7Q10	34.92	CFS
RECEIVING STREAM ANNUAL-AVERAGE FLOW	34.92	CFS
METAL-BEARING WASTE STREAM VOLUME	1.245	MGD
CYANIDE-BEARING WASTE STREAM VOLUME	0.648	MGD

Non-OCPSF Process Wastewater and Non-Process Wastewater based on permit writer's best professional judgment (BPJ)					
	Non-OCPSF Flow	Additional Allowance BOD5 (MG/L)		TSS (MG/L)	
Description	(MGD)	Max.	Avg.	Max.	Avg.
Utility	0.0000	20	10	20	10
Sanitary	0.0000	45	30	45	30
	0.8750				
Total	0.8750				

40 CFR 414 Subpart	OCPSF Product	Annual Production (Million lbs/year)	Subtotal	Subcat Proportio	Subcategory Limits BOD5 Max.	BOD5 Avg.	TSS Max.	TSS Avg.	Calculated Limits BOD5 Max.	BOD5 Avg.	TSS Max.	TSS Avg.
B Rayon Fibers		0	0	0	64	24	130	40	0	0	0	0
C Other Fibers		0	0	0	48	18	115	36	0	0	0	0
D Thermoplastic Resins		0	0	0	64	24	130	40	0	0	0	0
E Thermosetting Resins		0	0	0	163	61	216	67	0.00	0.00	0	0.00
F Commodity Organic Chemicals		0	0	0	80	30	149	46	0.00	0.00	0	0.00
G Bulk Organic		2.477	2.477	0.008227	92	34	159	49	0.757	0.27973	1.308	0.403143
H Specialty Organic		298.59	298.59	0.991773	120	45	183	57	119	44.6298	181.5	56.53104
		TOTAL =	301.067									

	BOD5		TSS	
	Max.	Avg.	Max.	Avg.
Process Total (mg/l)	119.8	44.9	182.8	56.9
Process Total (lb/day)	847.4	317.8	1293.4	402.8
Non-process total (lb/day)	0.000	0.000	0.000	0.000
Final Mass Limits (lb/day)	847.4	317.8	1293.4	402.8

BAT Limits are based on 40 CFR 414 Subpart I requirements

PARAMETER	LIMITS UG/L MAX.	AVG.	MASS LIMIT LBS/D MAX.	AVG.	ACUTE CHRONIC LBS/D (MARINE CRITERIA)	HUMAN HEALTH Fish Consumption	Water Consumption
Acenaphthene	59	22	0.417	0.156		117.154283	91.850978
Acenaphthylene	59	22	0.417	0.156			
Acrylonitrile*	242	96	1.712	0.679		0.029161	0.009052
Anthracene	59	22	0.417	0.156		4724.547680	1466.448
Benzene *	136	37	0.962	0.262		3.133430	0.226724
Benzo(a)anthracene*	59	22	0.417	0.156		0.002158	0.000670
3,4-Benzofluoranthene*	61	23	0.432	0.163		0.002158	0.000670
Benzo(k)fluoranthene*	59	22	0.417	0.156		0.002158	0.000670
Benzo(a)pyrene*	61	23	0.432	0.163		0.002158	0.000670
Bis(2-ethylhexyl) phthalate *	279	103	1.974	0.729		0.259617	0.171618
Carbon Tetrachloride *	38	18	0.269	0.127		0.193854	0.042554
Chlorobenzene	28	15	0.198	0.106		183.503781	24.557239
Chloroethane	268	104	1.896	0.736			
Chloroform *	46	21	0.325	0.149		20.655974	1.100032
2-Chlorophenol	98	31	0.693	0.219		17.631429	11.773811
Chrysene*	59	22	0.417	0.156		0.002158	0.000670
Di-n-Butyl phthalate	57	27	0.403	0.191		530.923891	303.547429
1,2-Dichlorobenzene	163	77	1.153	0.545		152.974839	69.564347
1,3-Dichlorobenzene	44	31	0.311	0.219		113.881243	51.786753
1,4-Dichlorobenzene	28	15	0.198	0.106		22.776249	10.357351
1,1-Dichloroethane	59	22	0.417	0.156			

1,2-Dichloroethane *	211	68	1.493	0.481			4.327127	0.076511
1,1-Dichloroethylene *	25	16	0.177	0.113			843.789771	65.385877
1,2-trans-Dichloroethylene	54	21	0.382	0.149			1196.258915	27.694962
2,4-Dichlorophenol	112	39	0.792	0.276			3482961.661	13.203044
1,2-Dichloropropane	230	153	1.627	1.083			1.720138	0.099635
1,3-Dichloropropylene	44	29	0.311	0.205			2.486959	0.068914
PARAMETER	LIMITS UG/L MAX.	AVG.	MASS LIMIT LBS/D MAX.	AVG.	ACUTE (MARINE CRITERIA)	CHRONIC LBS/D	HUMAN HEALTH Fish Consumption	Water Consumption
Diethyl phthalate	203	81	1.436	0.573			5178.326269	2706.571
2,4-Dimethylphenol	36	18	0.255	0.127			100.751018	58.893511
Dimethyl phthalate	47	19	0.333	0.134			131256.156	46024.7493
4,6-Dinitro-o-cresol**	277	78	1.960	0.552			33.322034	2.553585
2,4-Dinitophenol	123	71	0.870	0.502			630.027445	13.863734
2,4-Dinitotoluene*	285	113	2.017	0.800			0.401111	0.021631
2,6-Dinitotoluene	641	255	4.535	1.804				
Ethylbenzene	108	32	0.764	0.226			252.011788	90.724276
Fluoranthene	68	25	0.481	0.177			16.435557	15.534979
Fluorene	59	22	0.417	0.156			630.029470	195.526457
Hexachlorobenzene *	28	15	0.198	0.106			0.000034	0.000034
Hexachlorobutadiene *	49	20	0.347	0.142			2.179128	0.087232
Hexachloroethane *	54	21	0.382	0.149			0.388375	0.219784
Methyl Chloride*	190	86	1.344	0.609				
Methylene Chloride*	89	40	0.630	0.283			70.003297	0.932455
Naphthalene	59	22	0.417	0.156				
Nitrobenzene	68	27	0.481	0.191			81.751078	3.396671
2-Nitrophenol	69	41	0.488	0.290				
4-Nitrophenol	124	72	0.877	0.509				
Phenanthrene	59	22	0.417	0.156				
Phenol	26	15	0.184	0.106			101254.772	2082.615
Pyrene	67	25	0.474	0.177			472.522204	146.644837
Tetrachloroethylene *	56	22	0.396	0.156			0.388221	0.122134
Toluene	80	26	0.566	0.184			1766.438396	244.302768
Total Chromium	2770	1110	28.762	11.525	239.11	40.5125		
Total Copper	3380	1450	35.096	15.056	0.7463	0.6278		
Total Cyanide	1200	420	6.485	2.270	0.1555	0.2025	1890.089078	27.932344
Total Lead	690	320	7.164	3.323	32.6498	1.6403		
Total Nickel	3980	1690	41.326	17.548	11.5052	1.6606	201.073307	83.141749
Total Zinc	2610	1050	27.100	10.902	13.9928	16.4033	3016.099599	1247.126
1,2,4-Trichlorobenzene	140	68	0.991	0.481			8.289864	5.230874
1,1,1-Trichloroethane	54	21	0.382	0.149				
1,1,2-Trichloroethane *	54	21	0.382	0.149			1.842193	0.116485
Trichloroethylene *	54	21	0.382	0.149			3.537903	0.485355
Vinyl Chloride *	268	104	1.896	0.736			0.288475	0.004975

Evonik Corporation

DSN001B

Inorganic Chemical Manufacturing Guidelines (40CFR Part 415) Calculations

Subpart I - Hydrogen Peroxide (40CFR Part 415.90) BPT Limits

Production = 607.325 (1000 lbs/day)

Parameter	Daily Max GL Factor	Monthly Avg GL Factor	Daily Max lbs/day	Monthly Avg lbs/day
TSS	0.8	0.4	485.86	242.93
TOC	0.44	0.22	267.22	133.61
pH	Within the range of 6 -9 s.u.			

Evonik Corporation

Water Quality Metal Calculations - DSN001

1Q10 =	26.19 cfs	16.92 MGD
7Q10 =	34.92 cfs	22.56 MGD
Total Industrial Flow =		1.723 MGD

Marine metal aquatic life criteria

	Acute (mg/l)	Chronic (mg/l)
Ni	0.074	0.0082
Pb	0.21	0.0081
Cu	0.0048	0.0031

Permit Limits (Proposed/based on marine criteria)

	Acute (ppd)	Chronic (ppd)
Ni	11.505	1.661
Pb	32.649	1.640
Cu	0.746	0.628

Existing Permit Limits

	Acute (ppd)	Chronic (ppd)
Ni	6.000	2.990
Pb	1.130	0.237
Cu	1.320	1.310

Permit Limits based on more stringent of the limits listed above

	Acute (ppd)	Chronic (ppd)
Ni	6.000	1.661
Pb	1.130	0.237
Cu	0.746	0.628

Evonik Degussa Production - 2014 - 2018

Subpart G - Bulk Organic	Production lbs/day	Days of Operation	Production million lbs/yr	Average Flow MGD	Metal Bearing Flow (MGD)	Cyanide Bearing Flow (MGD)
Acetocyanhydrin	283141	365	103.346	0.002	0.002	0.002
Hydrocyanic Acid (HCN)	245518	365	89.614	0.032	0.032	0.032
Isophorones/PIC	387185	365	141.323	0.282	0.282	0.282
Methionine	736420	365	268.793	0.125	0.125	0.125
QUAB	106145	365	38.743	0.03	0.03	0
MethylMercaptoproprionaldehyde (MMP)	548194	365	200.091	0	0	0
Si169/Si203/Si230	43156	365	15.752	0.034	0.034	0
Methacrylate Products	98611	365	35.993	0.037	0.037	0
Tertiary Butyl Alcohol (TBA)	22000	268	5.896	0.024	0.024	0
Mepron	12051	365	4.399	0.011	0.011	0.011
Total	**2482421**		**903.950**	**0.577**	**0.577**	**0.452**
		Avg Daily Prod	**2.477**			

Subpart H - Specialty Organic	Production lbs/day	Days of Operation	Production million lbs/yr	Average Flow (MGD)	Metal Bearing Flow (MGD)	Cyanide Bearing Flow (MGD)
Aminoalkyalkoxysilane (AMEO) & Silanes	33398	356	11.890	0.006	0.006	0
Tertiary Butyl Hydrogen Peroxide (TBHP)	53056	365	19.365	0.042	0.042	0
Sodium Methylate	481064	365	175.588	0.014	0.014	0
Acrolein	305299431	356	108686.597	0.013	0.013	0
BASF Trilon M	143775	365	52.478	0.19	0.19	0.19
BCS ACM	65978	365	24.082	0.004	0.004	0.004
Acroleincyanhydrin-o-Acetate (ACA)	40738	365	14.869	0.0024	0.0024	0.0024
Total	**306117440**		**108984.870**	**0.2714**	**0.2714**	**0.1964**
		Avg Daily Prod	**298.589**			
			Total OCPSF Flow	**0.8484**	**0.8484**	**0.6484**
			Not regulated Flow		**0.401**	
			Non-process Flow	**0.875**		
			Total plant Flow	**1.7234**	**1.2494**	**0.6484**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT APPLICATION SUPPLEMENTARY INFORMATION

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – INDUSTRIAL / MINING PERMIT SECTION
POST OFFICE BOX 301463
MONTGOMERY, ALABAMA 36130-1463

INSTRUCTIONS: APPLICATIONS SHOULD BE TYPED OR PRINTED IN INK AND SUBMITTED TO THE DEPARTMENT 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 NON-APPLICABLE TO THE APPLICANT.

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

1. Facility Name: Evonik Corpoation

   a. Operator Name: Evonik Corporation

   b. Is the operator identified in 1.a., the owner of the facility? Yes ☑ No ☐
   If no, provide the name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.

2. NPDES Permit Number AL 0 0 2 3 2 7 2

3. SID Permit Number (if applicable): IU 4 1 - 4 9 - 0 0 0 2 1

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: 4201 Evonik Road (Formally Degussa Road)

   City: Theodore County: Mobile State: Alabama Zip: 36582

   Facility (Front Gate) Latitude: 30 30' 57" Longitude: 88 8' 16"

6. Facility Mailing Address (Street or Post Office Box): Post Office Box 868

   City: Theodore State: Alabama Zip: 36590

7. Responsible Official (as described on page 13 of this application):

Name and Title: Bonnie Tully, Vice President and Site Manager

Address: Post Office Box 868

City: Theodore State: Alabama Zip: 36590

Phone Number: (251) 443-4340

EMAIL Address: bonnie.tully@evonik.com

8. Designated Facility Contact:

Name and Title: Bill Klutz, Environmental Manager

Phone Number: (251) 443-4763

EMAIL Address: bill.klutz@evonik.com

9. Designated Discharge Monitoring Report Contact:

Name and Title: Chris Bolling, Environmental Lab Manager and Water Compliance Specialist

Phone Number: (251) 443-4611

EMAIL Address: chris.bolling@evonik.com

10. Type of Business Entity:

☑ Corporation ☐ General Partnership ☐ Limited Partnership

☐ Sole Proprietorship ☐ Other (Please Specify) _____

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

a) Location of Incorporation:

Address: 4201 Evonik Road

City: Theodore County: Mobile State: Alabama Zip: 36582

b) Parent Corporation of Applicant:

Name: Evonik Corporation

Address: 379 Interpace Parkway, Post Office Box 677

City: Parsippany State: New Jersey Zip: 07054

c) Subsidiary Corporation(s) of Applicant:

Name: N/A

Address:

City: State: Zip:

d) Corporate Officers:

Name: John Rolando, President

Address: 379 Interpace Parkway / Post Office Box 677

City: Parsippany State: New Jersey Zip: 07054-0677

Name: Bonnie Tully, Vice President and Site Manager

Address: 4201 Evonik Road (Formally Degussa Road)/ Post Office Box 868

City: Theodore State: Alabama Zip: 36582 / 36590

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

Name: The Corporation Company

Address: 2000 Interstate Park Drive, Suite 204

City: Montgomery State: Alabama Zip: 36109

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

Name: N/A

Address:

City: State: Zip:

Name:

Address:

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:

Permit Name	Permit Number	Held By
NPDES	AL0023272	Evonik Corporation
SID	IU 414900021	Evonik Corporation
RCRA / Title 5 (Air)	AL0075045575 / 5035011	Evonik Corporation

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):

Facility Name	Permit Number	Type of Action	Date of Action
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. 2869

b. 2819

c. 2873

d. _____

e. _____

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

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

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

Please see EPA Form 1, Section XII Attached

SECTION C – WASTEWATER DISCHARGE INFORMATION

Facilities that checked activities in question 2 of Section B and are considered Categorical Industrial Users should skip to question 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, pg 14), enter the description that corresponds to each process. [New facilities should provide estimates for each discharge.]

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)
Please See Attached	Tables		

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)
Please See Attached	Tables		

2b.

Process Description	Last 12 Months (gals/day) Highest Month Average*	Highest Flow Year of Last 5 (gals/day) Monthly Average*	Discharge Type (batch, continuous, intermittent)
Please See Attached	Tables		

*** 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 _____ (days of week) at _____ (hours of day)

d. Flow rate: _____ gallons/minute

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)
Please See Attached	Tables		

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 _____ (days of week) at _____ (hours of day)

d. Flow rate: _____ gallons/minute

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 Questions 3 – 5.

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

Flow Metering	Yes	✓	No	___	N/A	___
Sampling Equipment	Yes	✓	No	___	N/A	___

If so, please indicate the present or future location of this equipment on the sewer schematic and describe the equipment below:

Flow Totalizer and Automated 24 hour refrigerated composite sampler.

4. Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics? Yes ✓ No ___ (If no, skip Question 5)

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

The addition of a New Cooling Tower. Approximate blowdown =

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

Trade Name	Chemical Composition
Please see attached Table	

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
[✓] Municipal Water Utility (Specify City):
[ ] Surface Water
[ ] Other (Specify): _____

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

City: 0.5 *MGD Well: See Att *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 questions 1 and 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 _____ b)Location of Provider _____

   c) Latitude: _____ Longitude: _____

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 questions 6 – 17.)

6. Is the cooling water used in a once-through or 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. How is the intake operated? (e.g., continuously, intermittently, batch)

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

12. What is the intake screen flow-through area?

13. What is the through screen design intake flow velocity? _____ft/sec

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

15. Do you have any additional fish detraction technology on your intake? Yes [ ] No [ ]

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

17. 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
Wastewater generated in unit operations and treated onsite	South Site Equalization Tank, Blocks: B700, C600, C700,
(See Attached Site plan)	D700, E700, E500, E700, D400, D600

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*
Biological Solids and Inorganic Salts	10,000	Macland Disposal, Mosspoint, MS.

***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 10-foot elevation of Mobile or Baldwin County?

Yes [✓] No [ ] If yes, then complete items A through M below:

	YES	NO
A. Does the project require new construction?	✓	
B. Will the project be a source of new air emissions?	✓	
C. Does the project involve dredging and/or filling?		✓
Has the Corps of Engineers (COE) permit been received?		✓
Corps Project Number _____		
D. Does the project involve wetlands and/or submersed grassbeds?		✓
E. Are oyster reefs located near the project site? (Include a map showing project and discharge location with respect to oyster reefs)		✓
F. Does the project involve the siting, construction and operation of an energy facility as defined in ADEM Admin. Code R. 335-8-1-.02(bb)?		✓
G. Does the project involve shoreline erosion mitigation?		✓
H. Does the project involve construction on beaches and dunes?		✓
I. Will the project interfere with public access to coastal waters?		✓
J. Does the project lie within the 100-year floodplain?		✓
K. Does the project involve the registration, sale, use, or application of pesticides?		✓
L. Does the project propose to construct a new well or alter an existing well to pump more than 50 GPD?		✓
M. Has the applicable permit been obtained?		✓

SECTION G – ANTI-DEGRADATION EVALUATION

In accordance with 40 CFR 131.12 and the Alabama Department of Environmental Management Administrative Code, Section 335-6-10-.04 for antidegradation, the following information must be provided, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991? Yes [✓] No [ ]
   If yes, complete question 2 below. If no, go to Section H.

2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in question 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 questions A through F below and ADEM forms 311 and 313 (attached). Form 313 must be provided for each alternative considered technically viable.

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

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

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

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

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

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

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

SECTION H – EPA Application Forms

All Applicants must submit EPA permit application forms. More than one application form may be required from a facility depending on the number and types of discharges or outfalls found there. The EPA application forms are found on the Department's website at http://www.adem.state.al.us/. 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

Receiving Water(s)	303(d) Segment? (Y / N)	Included in TMDL?* (Y / N)
Middle Fork of Deer River (Continue below)	Y	No TMDL
(Theodore Industrial Barge Canal)		

*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 RULE 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."

"I FURTHER CERTIFY UNDER PENALTY OF LAW THAT ALL ANALYSES REPORTED AS LESS THAN DETECTABLE IN THIS APPLICATION OR ATTACHMENTS THERETO WERE PERFORMED USING THE EPA APPROVED TEST METHOD HAVING THE LOWEST DETECTION LIMIT FOR THE SUBSTANCE TESTED."

SIGNATURE OF RESPONSIBLE OFFICIAL: Bonnie Tully DATE SIGNED: 1/31/2017

(TYPE OR PRINT)
NAME OF RESPONSIBLE OFFICIAL: Bonnie Tully

TITLE OF RESPONSIBLE OFFICIAL: Vice President and Site Manager, Evonik Corporation

MAILING ADDRESS: Post Office Box 868

CITY, STATE, ZIP: Theodore, Alabama, 36590 PHONE: (251) 443 4340

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.

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

For Approved. OMB No. 2040-0086. Approval expires 5-31-92

FORM 1 GENERAL

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

15		T/A	C
F	AL0023272		D
1	2 13	14	15

LABEL ITEMS

- I. EPA I.D. NUMBER
- III. FACILITY NAME
- V. FACILITY MAILING LIST
- VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

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 authorization 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" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)	☐ 16	☒ 17	☐ 18	B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge to waters of the U.S.**? (FORM 2B)	☐ 19	☒ 20	☐ 21
C. Is this facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	☒ 22	☐ 23	☒ 24	D. Is this proposal facility *(other than those described in A or B above)* which will result in a **discharge to waters of the U.S.**? (FORM 2D)	☐ 25	☒ 26	☐ 27
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)	☐ 28	☒ 29	☐ 30	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)	☐ 31	☒ 32	☐ 33
G. Do you or will you inject at this facility any produced water 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)	☐ 34	☒ 35	☐ 36	H. Do you or will you inject at this facility fluids for special processes such as mining of sulfer by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4).	☐ 37	☒ 38	☐ 39
I. Is this facility a proposed **stationary source** 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)	☐ 40	☒ 41	☐ 42	J. Is this facility a proposed **stationary source** 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)	☐ 43	☒ 44	☐ 45

III. NAME OF FACILITY

C			
1	SKIP	Evonik Corporation	
15	16-29	30	69

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*		
Klutz, Bill - Environmental Compliance Manager	251	443	4765
16 45	46 48	49 51	52 55

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX			
Post Office Box 868			
16 45			
B. CITY OR TOWN	**C. STATE**	**D. ZIP CODE**	
Theodore	Al	36590	
16 40	41 42	47 51	

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER				
4201 Evonik Road (Formally Degussa Road)				
16 45				
B. COUNTY NAME				
bile				
C. CITY OR TOWN	**D. STATE**	**E. ZIP CODE**	**F. COUNTY CODE**	
Theodore	Al	36582		
16 40	41 42	47 51	52 54	

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EPA FORM 3510-1 (8-90)

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST		B. SECOND	
2869	(specify) Industrial Organic Chemicals	2819	(specify) Industrial Inorganic Chemicals
C. THIRD		**D. FOURTH**	
2873	(specify) Nitrogenous Fertilizers		(specify)

VIII. OPERATOR INFORMATION

A. NAME: Evonik Corporation

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other," specify.)
F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC (other than federal or state); O = OTHER (specify)
P (specify)

D. PHONE (area code & no.): 251 443 4000

E. STREET OR PO BOX: Post Office Box 868

F. CITY OR TOWN: Theodore

G. STATE: Al

H. ZIP CODE: 36590

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	AL0023272	D. PSD (Air Emissions from Proposed Sources)	
B. UIC (Underground Injection of Fluids)		E. OTHER (specify)	Title 5 Air Permit 5035011 (Specify)
C. RCRA (Hazardous Wastes)	AL0075045575	E. OTHER (specify)	IU41 49 00021 (SID) (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)

Evonik Corporation manufactures organic and inorganic chemicals. Products produced are: Acetocyanohydrin (ACH); Acrolein; Aerosil (via silicon tetrachloride)/Dispersions; Aminoalkylalkoxysilane (AMEO)/ Silane Blends; Ammonium Sulfate (AMSUL); Specialty Orthoesters; SI69, SI230, SI203; Hydrogen; Hydrochloric Acid; Hydrogen Cyanide (HCN); Hydrogen Peroxide (H2O2); Isophorones (IP); Isophorone diamine (IPD); Isophorone nitrile (IPN); Isophorone di-isocyanate (IPDI); Methacrylate Products (MMAT); Methionine (via B-methyl-Mercapto-Pro-prionaldehyde); Polyisocyanates (PIC); Quaternary Ammonium Bases (SKW QUAB); Sodium Methylate (NaOMe); Sodium Polysulfide (NPS); Tertiary Butyl Alcohol and Tertiary Butyl Hydrogen Peroxide (United Initiators TBA & TBHP); BASF Trilon M; Mepron (Methionine + Ethyl Cellulose); ACA(Acroleincyanhydrin-O-Acetate)and BCS ACM (3-Acetoxy-3-cyanopropyl methyl phosphinic acid butyl ester).

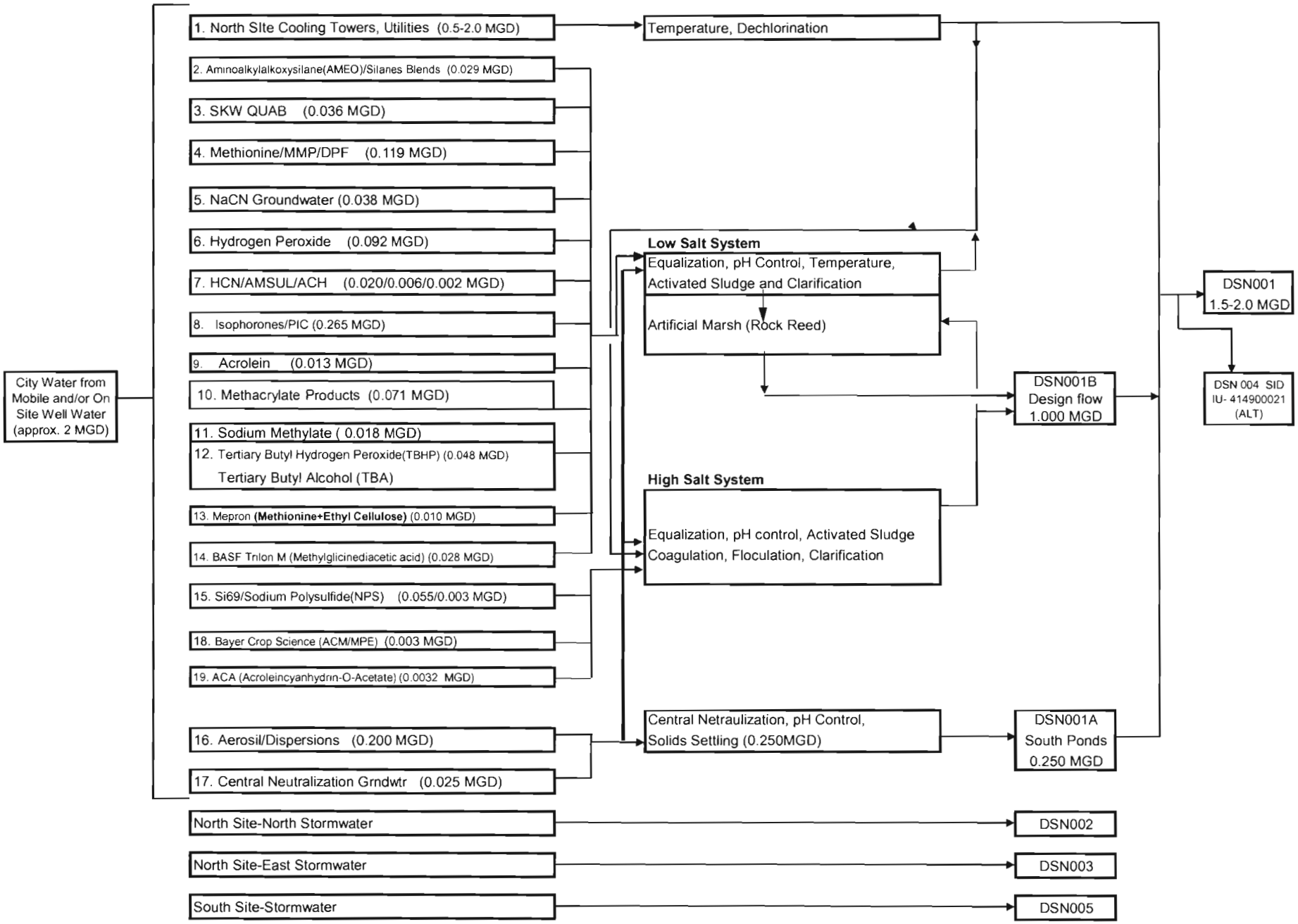
XIII. CERTIFICATION (see instructions)

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)	B. SIGNATURE	C. DATE SIGNED
Ms. Bonnie Tully, Vice President & Site Manager	Bonnie Tully	1/31/2017

COMMENTS FOR OFFICIAL USE ONLY

Evonik Corporation
Theodore, Alabama
Flow Diagram for Wastewater Treatment System
2017



	Products Manufactured	Category	Production (lbs/da)	Avg. Daily Flow(MGD)	Outfall NPDES	SID
7	Acetocyanohydrin (ACH)	Subpart G-Bulk Organic	228,999	0.002	001BS, 0011	004S
7	Hydrocyanic Acid (HCN)	Subpart G-Bulk Organic	204,621	0.020	001BS, 0011	004S
8	Isophorones/PIC	Subpart G-Bulk Organic	648,883	0.265	001BS, 0011	004S
4	Methionine	Subpart G-Bulk Organic	691,949	0.119	001BS, 0011	004S
4	MethylMercaptoproprionaldehyde (MMP)	Subpart G-Bulk Organic	626,721	Included w/Methionine	001BS, 0011	004S
3	Quaternary Ammonium Bases (SKW QUAB)	Subpart G-Bulk Organic	165,326	0.036	001BS, 0011	004S
15	Si69/Si203/Si230 etc.	Subpart G-Bulk Organic	41,748	0.055	001BS, 0011	004S
10	Methacrylate Products	Subpart G-Bulk Organic	44,284	0.071	001BS, 0011	004S
12	Tertiary Butyl Alcohol (TBA)	Subpart G-Bulk Organic	22,000	0.024	001BS, 0011	004S
13	Mepron (Methionine+Ethyl Cellulose)	Subpart G-Bulk Organic	21,529	0.010	001BS, 0011	004S
		TOTAL	2,696,060	0.602		
9	Acrolein	Subpart H-Specialty Organic	318,000	0.013	001BS, 0011	004S
2	Aminoalkyalkoxysilane (AMEO) & Silane Blends	Subpart H-Specialty Organic	27,484	0.029	001BS, 0011	004S
12	Tertiary Butyl Hydrogen Peroxide (TBHP)	Subpart H-Specialty Organic	28,000	0.024	001BS, 0011	004S
11	Sodium Methylate	Subpart H-Specialty Organic	297,408	0.018	001BS, 0011	004S
14	BASF Trilon M (Methylglicinediacetic acid)	Subpart H-Specialty Organic	151,002	0.028	001BS, 0011	004S
18	Bayer Crop Science (BCS) ACM	Subpart H-Specialty Organic	71,781	0.0063	001BS, 0011	004S
19	Acroliencyanhydrin-O-Acetate (ACA)	Subpart H-Specialty Organic	60,411	0.0032	001BS, 0011	004S
		TOTAL	954,086	0.122		
		TOTAL OCPSF Flow		0.724		
16	Aerosil & Dispersions	Not Regulated	63,080	0.200	001A, 001	004S
7	Ammonium Sulfate (Amsul)	Not Regulated	120,938	0.006	001BS, 0011	004S
4	Agrili Fertilizer (DPF)	Not Regulated	182,097	Included w/Methionine	001BS, 0011	004S
6	Hydrogen Peroxide (H202)	Hydrogen Peroxide Process	607,325	0.092	001BS, 0011	004S
15	Sodium Polysulfide (NPS)	Not Regulated	24,133	0.003	001BS, 0011	004S
1	Once thru cooling water, Boiler blowdown etc.	Non Process Discharges	n/a	0.708	0011	
	Additional New Cooling Tower	Non Process Discharges	n/a	0.031	0011	
	Stormwater	Non Process Discharges	n/a	0.032	001BS, 0011	004S
17	Central Neutralization Groundwater	Non Process Discharges	n/a	0.025	001A, 0011	004S
5	NaCN Groundwater	Non Process Discharges	n/a	0.038	001BS, 0011	004S
			Total	0.834		

	Products Manufactured	Category	Highest Production Year				Wastewater	
			Highest Month(lbs/da)	Days of Operation	Highest Yearly Avg.(lbs/da)	Days of Operation	Avg. Daily Flow(GPD)	Maximum Flow(GPD)
9	Acrolein	Subpart H-Specialty Organic	318,000	31	250,800	356	13,000	13,000
7	Acetocyanohydrin (ACH)	Subpart G-Bulk Organic	228,999	31	194,971	297	2,000	4,000
16	Aerosil & Dispersions	Not Regulated	63,080	31	54,917	365	200,000	400,000
2	Aminoalkyalkoxysilane (AMEO) & Silane Blends	Subpart H-Specialty Organic	27,484	30	22,349	356	29,040	87,120
7	Ammonium Sulfate (Amsul)	Not Regulated	120,938	26	114,313	236	6,000	12,000
4	Agrili Fertilizer (DPF)	Not Regulated	182,097	30	152,963	322	Included w/Methionine	
7	Hydrocyanic Acid (HCN)	Subpart G-Bulk Organic	204,621	31	188,023	345	20,000	76,000
6	Hydrogen Peroxide (H202)	Hydrogen Peroxide Process	607,325	30	538,619	365	92,000	301,000
8	Isophorones/PIC	Subpart G-Bulk Organic	565,103	30	648,883	217	265,000	394,000
4	Methionine	Subpart G-Bulk Organic	691,949	30	690,299	308	119,000	271,000
15	Sodium Polysulfide (NPS)	Not Regulated	24,133	30	24,663	277	2,500	5,000
3	Quaternary Ammonium Bases (SKW QUAB)	Subpart G-Bulk Organic	165,326	26	139,399	318	36,000	56,000
4	MethylMercaptoproprionaldehyde (MMP)	Subpart G-Bulk Organic	626,721	29	515,934	322	Included w/Methionine	
15	Si69/Si203/Si230 etc.	Subpart G-Bulk Organic	41,748	30	32,562	365	55,000	165,000
10	Methacrylate Products	Subpart G-Bulk Organic	44,284	31	34,230	365	71,000	105,000
12	Tertiary Butyl Hydrogen Peroxide (TBHP)	Subpart H-Specialty Organic	28,000	20	24,000	268	24,000	72,000
12	Tertiary Butyl Alcohol (TBA)	Subpart G-Bulk Organic	22,000	20	19,000	268	24,000	72,000
11	Sodium Methylate	Subpart H-Specialty Organic	297,408	31	247,748	268	18,000	26,000
14	BASF Trilon M (Methylglicinediacetic acid) BASF Ammonia	Subpart H-Specialty Organic	151,002 15,863	31 31	151,002 15,863	365 365	28,000	120,000
13	Mepron (Methionine + Ethyl Cellulose)	Subpart G-Bulk Organic	21,529	31	21,529	365	10,000	16,000
18	Bayer Crop Science(BCS) (ACM) (Estimated)	Subpart H-Specialty Organic	71,781	31	71,781	365	6,336	69,696
19	Acroleincyanhydrin-O-Acetate (ACA) (Estimated)	Subpart H-Specialty Organic	60,411	31	60,411	365	3,168	9,504
1	Non Process Discharges: Once thru Cooling, Utilities blowdown, etc.	Non Process Discharge	n/a	n/a	n/a	n/a	739,000	1,064,000
5	NaCN Groundwater	Non Process Discharge	n/a	n/a	n/a	n/a	38,000	
17	Central Neutralization	Non Process Discharge	n/a	n/a	n/a	n/a	25,000	
	Stormwater (Estimated)	Non Process Discharge	n/a	n/a	n/a	n/a	32,000	

Evonik, Corrosion Inhibitors and Biocides, Theodore Complex 2017					
Zee Co. Products	**Use**	**Purpose**	**Location**	**Corrosion Inhibitor**	**Biocide**
BLR 10	Blended Boiler Product	Internal Cleanliness	Utilities, North & South	√	
BLR 56T	Blended Boiler Product	Internal Cleanliness	Acrolein	√	
BLR 193 T	Blended Boiler Product	Internal Cleanliness	Peroxide	√	
Feedwater 4	Oxygen Scavenger	Plant Deaerators	Utility, Acrolein, Peroxide, HCN	√	
Steam 132	Amine	Steam & Condensate	Utility, Acrolein, Peroxide, HCN	√	
CWT 800	Cooling Tower Inhibitor	Corrosion Inhibitor Dispersant Blend		√	
PWT 9	Process Well Water	Corrosion Inhibitor	North Utilities	√	
Closed 4	Chilled Water Systems	Corrosion Inhibitor	North & South Utilities	√	
Closed 9	Tempered Water System	Corrosion Inhibitor	HCN Tempered Water	√	
Biocide One	Tempered Chilled Waters	Biocide	Utilities, HCN		√

Well ID	Depth	Degrees	Minutes	Seconds	Inclination	MGD
DEG-1	268	30	31	35.416	Latitude North	0.5
		88	8	19.411	Longitude West	
DEG-2	192	30	31	25.529	Latitude North	0.5
		88	8	22.295	Longitude West	
DEG-3	190	30	31	34.698	Latitude North	0.5
		88	8	11.115	Longitude West	

Please type or print in the unshaded areas only	EPA ID Number *(Copy from Item 1 of Form 1)* **AL0023272**	*Form Approved OMB No. 2040-0086 Approval expires 7-31-88*

Form **2C** NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY

APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICUTLRAL OPERATIONS

Consolidated Permits Program

I. Outfall Location

For this outfall, list the latitude and longitude, and name of the receiving water(s)

Outfall Number *(list)*	Latitude			Longitude			Receiving Water *(name)*
	Deg	Min	Sec	Deg	Min	Sec	
DSN001	*30.00*	*31.00*	*26.00*	*88.00*	*7.00*	*56.00*	*Theodore Industrial Barge Canal (Middle Fork Deer River)*
DSN002	*30.00*	*31.00*	*39.00*	*88.00*	*8.00*	*1.00*	*Unnamed Tributary to Middle Fork Deer River*
DSN003	*30.00*	*31.00*	*26.00*	*88.00*	*7.00*	*58.00*	*Unnamed Tributary to Middle Fork Deer River*
DSN005	*30.00*	*30.00*	*49.00*	*88.00*	*8.00*	*19.00*	*Unnamed Tributary to Middle Fork Deer River*
DSN001a DSN001b	*30.00*	*31.00*	*26.00*	*88.00*	*7.00*	*56.00*	*DSN001*

II. Flows, Sources of Pollution, and Treatment Technologies

A. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

B. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

1. Outfall Number	2. Operations Contributing Flow		3. Treatment		
	a. OPERATION *(list)*	b. AVERAGE FLOW	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
DSN001	*Final Discharge consisting of treated wastewater from DSN001a, DSN001b & Boiler/Cooling Tower Water*	*1.6 MGD*	*Sedimentation*	*1*	*U*
			Neutralization	*2*	*K*
			Mixing	*1*	*O*
			ActivatedSludge	*3*	*A*
			Nitrification/Den	*3*	*D*
			Artificial Marsh	*3*	*H*
			Filter Press	*5*	*R*
			Dechlorination	*2*	*E*
			Discharge to Surface Water	*4*	*A*
DSN002	*North Storm Water*	*0.6 MGD*	*Discharge to Surface Water*	*4*	*A*
DSN003	*East Storm Water*	*0.1 MGD*	*Discharge to Surface Water*	*4*	*A*
DSN005	*South Storm Water*	*0.5 MGD*	*Discharge to Surface Water*	*4*	*A*
DSN001a	*Process wastewater from Aerosil/Dispersion production*	*0.2 MGD*	*pH Neutralization*	*2*	*K*
			Sedimentation	*1*	*U*

CONTINUED ON REVERSE

DSN001b	*Process wastewater from Acrolein, Ameo/Silanes,SI69/SI230/ SI203, Isophorones, Polyesters, Methionine/MMP/DPF, HCN/AMSUL, CYAD/Ortho, H202, TBHP/TBA, MMAT, ACH, SKW QUAB, NPS, NaMeo, BASF, ACA, ACM, Groundwater-Remediation & Rain water sumps*	*0.8 MGD*	*Sedimentation*	*1*	*U*
			Neutralization	*2*	*K*
			Mixing	*1*	*O*
			Activated Sludge	*3*	*A*
			NitrificationDen	*3*	*D*
			Artificial Marsh	*3*	*H*
			Filter Press	*5*	*R*
			Discharge to Surface Water	*4*	*A*

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ **YES** *(complete the following table)* ☒ **NO** *(go to Section III)*

1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		b. TOTAL VOLUME (specify with units		c. DURATION (in days)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ **YES** *(complete Item III-B)* ☐ **NO** *(go to Section IV)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

☒ **YES** *(complete Item III-C)* ☐ **NO** *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	(list outfall numbers)
		Please see attached Tables	

IV. 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.

☐ **YES** *(complete the following table)* ☒ **NO** *(go to Item IV-B)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. No	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

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

☐ **MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAM IS ATTACHED**

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding - Complete one set of tables or each outfall - Annotate the outfall number in the space provided. **NOTE:** Tables V-A, V-B, and V-C are included on separate sheets number V-1 through V-9.

D: Use the space below to list any of the pollutants listed in Tables 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Acetaldehyde	***Methionine & Acrolein Production***		
Allyl Alcohol	***Acrolein Production***		
Epichlorohydrin	***Raw Material – Quab Production***		
Methyl Mercaptan	***Raw Mat. – Methionine Production***		
Methyl methacrylate	***Product - MMAT***		

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C 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 Item VI-B)*

14M. Cyanide, Total
1V. Acrolein
6V. Carbon Tetrachloride
25V. Toluene
38B. Isophorone

CONTINUED FROM THE FRONT

VII. 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** *(identify the test(s) and describe their purpose below)* ☐ **NO** *(go to Section VIII)*

Cyprinodon variegates 7-day Bioassay ***NPDES Requirement (DSN001) Quarterly***

Arbacia punctulata Bioassay ***NPDES Requirement (DSN001) Monthly***

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V 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 IX)*

A. NAME	B. ADDRESS	C. TELEPHONE *(area code & no.)*	D. POLLUTANTS ANALYZED *(list)*
TestAmerica Lab, Inc.	***900 Lakeside Drive; Mobile, Al.***	***(251) 666-6633***	***Analytes listed in***
		( )	***Part V-B & V-C***
		( )	
		( )	
		( )	
		( )	
		( )	
		( )	
		( )	
		( )	
		( )	
		( )	
		( )	
		( )	

IX. 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)*	B. PHONE NO. *(area code & no.)*
Ms. Bonnie Tully, Vice President and Site Manager	***(251) 443-4000***
C. SIGNATURE Bonnie Tully	D. DATE SIGNED 1/31/2017

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*
AL0023272 (DSN001)

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

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.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	2. EFFLUENT d. NO. OF ANALYSIS	3. UNITS *(specify if blank)* a. CONCENTRATION	3. UNITS *(specify if blank)* b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE *(optional)* b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	5.2	93.2	2.2	33.5	1.3	18.6	366	Mg/l	Lbs/da	n/a	n/a	n/a
b. Chemical Oxygen Demand *(COD)*	54	1253	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
c. Total Organic Carbon *(TOC)*	28	462	20	274	16	220	157	Mg/l	Lbs/da	n/a	n/a	n/a
d. Total Suspended Solids *(TSS)*	46	615	14	194	6	86	157	Mg/l	Lbs/da	n/a	n/a	n/a
e. Ammonia *(as N)*	0.78	15	0.19	3	0.11	1.5	366	Mg/l	Lbs/da	n/a	n/a	n/a
f. Flow	Value 2.782		Value 2.000		Value 1.652		366	MGD	n/a	Value n/a		n/a
g. Temperature *(winter)*	Value 26.6		Value 28.6		Value 19.4		183	°C		Value n/a		n/a
h. Temperature *(summer)*	Value 30.2		Value 29.6		Value 26.6		183	°C		Value n/a		n/a
i. pH	Minimum 6.8	Maximum 8.4	Minimum 7.6	Maximum 7.9			366	STANDARD UNTIS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitation guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	2. EFFLUENT d. NO. OF ANALYSIS	3. UNITS *(specify if blank)* a. CONCENTRATION	3. UNITS *(specify if blank)* b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE *(optional)* b. NO. OF ANALYSES
a. Bromide (24959-67-9)	☐	☒	13	302	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
b. Chlorine, Total Residual	☐	☒	<0.05	<1.16	<0.05	<0.83	<0.05	<0.69	52	Mg/l	Lbs/da	n/a	n/a	n/a
c. Color	☐	☒	24	n/a	n/a	n/a	n/a	n/a	1	CU	n/a	n/a	n/a	n/a
d. Fecal Coliform	☐	☒	280	n/a	n/a	n/a	n/a	n/a	1	CFU/100 mls	n/a	n/a	n/a	n/a
e. Fluoride (16984-48-8)	☐	☒	<1.0	<23	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
f. Nitrate-Nitrite *(as N)*	☒	☐	6.5	122	5.0	78	2.2	34	26	Mg/l	Lbs/da	n/a	n/a	n/a

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		2. EFFLUENT						d. NO. OF ANALYSIS	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	☒	☐	2.8	49	2.7	43	2.0	31	26	Mg/l	Lbs/da	n/a	n/a	n/a
h. Oil and Grease	☐	☒	<5.3	<123	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
i. Phosphorus (as P), Total (7723-14-0)	☒	☐	28	416	24	325	15	225	26	Mg/l	Lbs/da	n/a	n/a	n/a
j. Radioactivity														
(1) Alpha, Total	☐	☒	1.0 +/- 0.3	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
(2) Bets, Total	☐	☒	0.3 +/- 0.4	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
(3) Radium, Total	☐	☒	0.2 +/- 0.4	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
(4) Radium 226, Total	☐	☒	0.2 +/- 0.2	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
k. Sulfate (as SO_4) (14808-79-8)	☒	☐	390	9,049	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
l. Sulfide (as S)	☐	☒	<0.10	<2.32	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
m. Sulfite (as SO_3)(14265-45-3)	☐	☒	<0.64	<14.9	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
n. Surfactants	☐	☒	<0.10	<2.3	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
o. Aluminum, Total (7429-90-5)	☒	☐	0.19	4.4	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
p. Barium, Total (7440-39-3)	☒	☐	0.034	0.79	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
q. Boron, Total (7440-42-8)	☐	☒	<0.10	<2.3	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
r. Cobalt, Total (7440-48-4)	☐	☒	<0.010	<0.2	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
s. Iron, Total (7439-89-4)	☒	☐	0.48	11.1	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
t. Magnesium, Total (7439-95-4)	☒	☐	2.1	48.7	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
u. Molybdenum, Total (7439-98-7)	☐	☒	0.017	0.4	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
v. Manganese, Total (7439-96-5)	☒	☐	0.031	0.72	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
w. Tin, Total (7440-31-5)	☐	☒	0.020	0.46	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
x. Titanium, Total (7440-32-6)	☐	☒	<0.005	<0.12	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

CONTINUE ON PAGE V-3

CONTINUED FROM PAGE 3 OF FORM 2-C

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
AL0023272	*DSN001*

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1m. Antimony, Total (7440-36-0)	☒	☐	☐	*<0.050*	*<1.2*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
2M. Arsenic, Total (7440-38-2)	☒	☐	☐	*<0.005*	*<0.12*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
3M. Beryllium, Total (7440-41-7)	☒	☐	☐	*<0.003*	*<0.07*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
4M. Cadmium, Total (7440-43-9)	☒	☐	☐	*<0.005*	*<0.12*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
5M Chromium, Total (7440-47-3)	☒	☐	☐	*<0.010*	*<0.23*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
6M Copper, Total (7440-50-8)	☒	☐	☐	*<0.010*	*<0.23*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
7M lead, Total (7439-92-1)	☒	☐	☐	*<0.005*	*<0.12*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
8M Mercury, Total (7439-97-6)	☒	☐	☐	*<0.0002*	*<0.005*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
9M Nickel, Total (7440-02-0)	☒	☐	☐	*0.0057*	*0.13*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
10M Selenium, Total (7782-49-2)	☒	☐	☐	*<0.010*	*<0.23*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
11M Silver, Total (7440-22-4)	☒	☐	☐	*<0.005*	*<0.12*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
12M Thallium, Total (7440-28-0)	☒	☐	☐	*<0.010*	*<0.23*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
13M Zinc, Total (7440-66-6)	☒	☐	☐	*0.059*	*1.37*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
14M Cyanide, Total (57-12-5)	☒	☐	☐	*<0.057*	*<1.32*	*<0.057*	*<0.95*	*<0.057*	*<0.79*	*12*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
15M Phenols, Total	☒	☐	☐	*<0.010*	*<0.23*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Mg/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)	☐	☐	☒	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

(DSN001)

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'			2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (If available)		d. NO. OF ANALYSIS			a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		a. CONCENTRATION	b. MASS	(1) CONCENTRATION	(2) MASS	
GC/MS - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	☒	☐	☐	<0.02	<0.46	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2V Acrylonitrile (107-13-1)	☒	☐	☐	<0.01	<0.23	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3V Benzene (71-43-2)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4V Bis (Chloromethyl) Ether (542-88-1)	☐	☐	☐	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5V Bromoform (75-25-2)	☒	☐	☐	<0.005	<0.12	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6V Carbon Tetrachloride (56-23-5)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7V Chlorobenzene (108-90-7)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8V Chlorodibromomethane (124-48-1)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9V Chloroethane (75-00-3)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10V 2-Chloroethylvinyl Ether (110-75-8)	☒	☐	☐	<0.005	<0.12	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11V Chloroform (67-66-3)	☒	☐	☐	0.003	0.08	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
12V Dichlorobromoethane (75-71-8)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
13V Dichlorodifluoromethane (75-71-8)	☐	☐	☐	n/a	n/a	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
14V 1,1-Dichloroethane (75-34-3)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
15V 1,2-Dichloroethane (107-06-2)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
16V 1,1-Dichloroethylene (75335-4)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
17V 1,2-Dichloropropane (78-87-5)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
18V 1,3-Dichloropropylene (542-76-6)	☒	☐	☐	<0.002	<0.05	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
19V Ethylbenzene (100-41-4)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
20V Methyl Bromide (74-83-9)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
21V Methyl Chloride (74-87-3)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

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EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: *AL0023272*

OUTFALL NUMBER: *DSN001*

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS - VOLATILE COMPOUNDS *(continued)*															
22 V Methylene Chloride (75-09-2)	☒	☐	☐	<0.005	<0.12	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
23V 1,1,2,2-Tetra-Chloroethane (79-34-5)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
24V Tetrachloro-ethylene (127-18-4)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
25V Toluene (108-88-3)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
26V 1,2-Trans-Dichloroethylene (156-60-5)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
27V 1,1,1-Tri-chloroethane (71-55-6)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
28V 1,1,2-Tri-chloroethane (79-00-5)	☒	☐	☐	<0.005	<0.12	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
29V Trichloro-ethylene (79-01-6)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
30V Trichloro-fluoromethane (75-69-4)	☐	☐	☐	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
31V Vinyl Chloride (75-01-4)	☒	☐	☐	<0.001	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
GC/MS FRACTION - ACID COMPOUNDS															
1A 2-Chlorophenol (95-57-8)	☒	☐	☐	<0.010	<0.15	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2A 2,4-Dichloro-phenol (120-83-2)	☒	☐	☐	<0.010	<0.15	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3A 2,4-Dimethyl-phenol (105-67-9)	☒	☐	☐	<0.010	<0.15	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4A 4,6-Dinitro-O-cresol (534-52-1)	☒	☐	☐	<0.050	<0.75	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
5A 2,4-Dinitro-phenol (51-28-5)	☒	☐	☐	<0.050	<0.75	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6A 2-Nitro-phenol (88-75-5)	☒	☐	☐	<0.010	<0.15	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7A 4-Ntro-phenol (100-02-7)	☒	☐	☐	<0.050	<0.75	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8A P-Chloro-M-Cresol (59-50-7)	☒	☐	☐	<0.010	<0.15	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9A Penta-chlorophenol (87-86-5)	☒	☐	☐	<0.050	<0.75	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10A Phenol (10/-95-2)	☒	☐	☐	<0.010	<0.15	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11A 2,4,6-Tri-chlorophenol (88-06-2)	☒	☐	☐	<0.010	<0.15	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B Acenphthene (83-32-9)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2B Acenaphtylene (208-96-8)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3B Anthracene (120-12-7)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4B Benzidine (92-87-5)	☒	☐	☐	<0.023	<0.53	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
5B Benzo (a) Anthracene (56-55-3)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6B Benzo (a) Pyrene (50-32-8)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7B 3,4-Benzo-fluoranthene (205-99-2)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8B Benzo *(ghi)* Perylene (191-24-2)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9B Benzo *(k)* Fluoranthene (207-08-9)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10B Bis *(2-Chloroethoxy)* Methane (111-91-1)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11B Bis *(2-Chloro-ethyl)* Ether (111-44-4)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
12B Bis *(2-Chloroisepropyl)* Ether (102-60-1	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
13B Bis*(2-Ethyl-hexyl)* Phthalate (117-81-7)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
14 B 4-Bromo-phenyl Phenyl Ether (101-55-3)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
15B Butyl Benzyl Phthalate (85-68-7)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
16B 2-Chloro-naphthalene (91-68-7)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
17B 4-Chloro-phenyl Phenyl Ether (7005-72-3)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
18B Chrysene (218-01-9)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
19B Dibenzo *(a,h)* Anthracene (53-70-3)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
20B 1,2-Dichloro-benzene (95-50-1)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
21B 1,3-Dichloro-benzene (541-73-1)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: *AL0023272*

OUTFALL NUMBER: *DSN001*

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS - BASE/NEUTRAL COMPOUNDS *(continued)*															
22B 1,4-Dichlorobenzene (106-46-7)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
23B 3,3'-Dichlorobenzidine (91-94-1)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
24B Diethyl Phthalate (84-66-2)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
25B Dimethyl Phthalate (131-11-3)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
26B Di-N-Butyl Phthalate (131-11-3)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
27B 2,4-Dinitrotoluene (121-14-2)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
28B 2,6-Dinitrotoluene (606-20-2)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
29B Di-N-Octyl Phthalate (117-84-0)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
30B 1,2-Diphenylhydrazine *(as Azo-benzene)* (122-66-7)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
31B Fluoranthene (206-44-0)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
32B Fluorene (86-73-7)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
33B Hexachlorobenzene (118-74-1)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
34B Hexachlorobutadiene (87-68-3)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
35B Hexachlorocyclopentadiene (77-47-4)	☒	☐	☐	<0.019	<0.44	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
36B Hexachloroethane (67-72-1)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
37B Indeno *(1,2,3-cd)* Pyrene (193-39-5)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
38B Isophorone (78-59-1)	☒	☐	☐	0.0097	0.23	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
39B Napthalene (91-20-3)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
40B Nitrobenzene (98-95-3)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
41B N-Nitrosodimethylamine (62-75-9)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
42B N-Nitrosdi-N-Propylamine (621-64-7)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

CONTINUED FROM THE FRONT (DSN001)

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'			2. EFFLUENT						d. NO. OF ANALYSIS	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B N-Nitrosodiphenylamine (86-30-6)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
44B Phenanthrene (85-01-/	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
45B Pyrene (129-00-0)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
46B 1,2,4-Trichlorobenzene (120-82-1)	☒	☐	☐	<0.0093	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
GC/MS FRACTION - PESTICIDES															
1P Aldrin (309-00-2)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
2P β-Bhc (319-85-7)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
4P γ-BHC (58-89-9)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
5P δ-BHC (319-86-8)	☒	☐	☐	<0.047	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
6P Chlordane (57-74-9)	☒	☐	☐	<0.47	<0.011	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
7P 4,4'-DDT (50-29-3)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
8P 4,4'-DDE (72-55-9)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
9P 4,4'-DDD (72-54-8)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
10P Dieldrin (60-57-1)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
11P α-Endosulfan (115-29-7)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
12P β-Endosulfan (115-29-7	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
13P Endosulfan Sulfate (1031-07-8)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
14P Endrin (72-20-8)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
15P Endrin Aldehyde (7421-93-4)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
16P Heptachlor (76-44-8)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
AL0023272	*DSN001*

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT						d. NO. OF ANALYSIS	3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS - PESTICIDES *(continued)*															
17P Heptachlor Expxide (1024-57-3)	☒	☐	☐	<0.019	<0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
18P PCB-1242 (53469-21-9)	☒	☐	☐	<0.47	<0.011	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
19P PCB-1254 (11097-69-1)	☒	☐	☐	<0.47	<0.011	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
20P PCB-1221 (11104-28-2)	☒	☐	☐	<0.47	<0.011	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
21P PCB-1232 (11141-16-5)	☒	☐	☐	<0.47	<0.011	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
22P PCB-1248 (12672-29-6)	☒	☐	☐	<0.47	<0.011	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
23P PCB-1260 (11096-82-5)	☒	☐	☐	<0.47	<0.011	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
24P PCB-1016 (12674-11-2)	☒	☐	☐	<0.47	<0.011	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
25P Toxaphene (8001-35-2)	☒	☐	☐	<2.8	<0.065	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*
AL0023272 - DSN001A

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

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.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	2. EFFLUENT d. NO. OF ANALYSIS	3. UNITS *(specify if blank)* a. CONCENTRATION	3. UNITS *(specify if blank)* b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE *(optional)* b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	7.4	17	2.6	4	1.4	3	358	Mg/l	Lbs/da	n/a	n/a	n/a
b. Chemical Oxygen Demand *(COD)*	24	106	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
c. Total Organic Carbon *(TOC)*	11	47	6	14	4	8	359	Mg/l	Lbs/da	n/a	n/a	n/a
d. Total Suspended Solids *(TSS)*	70	309	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
e. Ammonia *(as N)*	0.9	0.5	0.2	0.3	0.1	0.2	359	Mg/l	Lbs/da	n/a	n/a	n/a
f. Flow	Value 0.529		Value 0.275		Value 0.239		366	MGD	n/a	Value n/a		n/a
g. Temperature *(winter)*	Value Ambient		Value Ambient		Value Ambient		n/a	°C		Value n/a		n/a
h. Temperature *(summer)*	Value Ambient		Value Ambient		Value Ambient		n/a	°C		Value n/a		n/a
i. pH	Minimum 2.2	Maximum 8.1	Minimum 2.7	Maximum 8.2			359	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitation guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	2. EFFLUENT d. NO. OF ANALYSIS	3. UNITS *(specify if blank)* a. CONCENTRATION	3. UNITS *(specify if blank)* b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE *(optional)* b. NO. OF ANALYSES
a. Bromide (24959-67-9)	☐	☒	180	794	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
b. Chlorine, Total Residual	☒	☐	<0.05	<0.2	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
c. Color	☐	☒	8.3	n/a	n/a	n/a	n/a	n/a	1	CU	n/a	n/a	n/a	n/a
d. Fecal Coliform	☐	☒	<1.0	n/a	n/a	n/a	n/a	n/a	1	CFU/100 mls	n/a	n/a	n/a	n/a
e. Fluoride (16984-48-8)	☒	☐	<2.0	<8.8	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
f. Nitrate-Nitrite *(as N)*	☐	☒	0.18	0.8	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSIS	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS (specify if blank) b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	☒	☐	<0.10	<0.44	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
h. Oil and Grease	☐	☒	<4.5	<19.9	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
i. Phosphorus (as P), Total (7723-14-0)	☒	☐	0.57	2.52	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
j. Radioactivity														
(1) Alpha, Total	☐	☒	0.6 +/- 0.4	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
(2) Bets, Total	☐	☒	5.6 +/-12.5	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
(3) Radium, Total	☐	☒	0.0 +/- 0.5	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
(4) Radium 226, Total	☐	☒	0.3 +/-0.2	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
k. Sulfate (as SO_4) (14808-79-8)	☒	☐	21	93	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
l. Sulfide (as S)	☐	☒	<0.10	<0.44	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
m. Sulfite (as SO_3)(14265-45-3)	☐	☒	<0.64	<2.8	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
n. Surfactants	☐	☒	<0.10	<0.44	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
o. Aluminum, Total (7429-90-5)	☒	☐	0.19	0.84	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
p. Barium, Total (7440-39-3)	☒	☐	0.024	0.11	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
q. Boron, Total (7440-42-8)	☐	☒	<0.10	<0.44	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
r. Cobalt, Total (7440-48-4)	☐	☒	<0.01	<0.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
s. Iron, Total (7439-89-4)	☒	☐	0.57	2.5	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
t. Magnesium, Total (7439-95-4)	☒	☐	1.4	6.2	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
u. Molybdenum, Total (7439-98-7)	☐	☒	<0.01	<0.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
v. Manganese, Total (7439-96-5)	☒	☐	<0.01	<0.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
w. Tin, Total (7440-31-5)	☐	☒	0.11	0.49	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
x. Titanium, Total (7440-32-6)	☐	☒	<0.005	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

CONTINUED FROM PAGE 3 OF FORM 2-C

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
AL0023272	DSN001A

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1m. Antimony, Total (7440-36-0)	☒	☐	☐	<0.05	<0.22	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2M. Arsenic, Total (7440-38-2)	☒	☐	☐	<0.005	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3M. Beryllium, Total (7440-41-7)	☒	☐	☐	<0.003	<0.01	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4M. Cadmium, Total (7440-43-9)	☒	☐	☐	<0.005	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
5M Chromium, Total (7440-47-3)	☒	☐	☐	<0.010	<0.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6M Copper, Total (7440-50-8)	☒	☐	☐	<0.010	<0.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7M lead, Total (7439-92-1)	☒	☐	☐	0.015	0.07	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8M Mercury, Total (7439-97-6)	☒	☐	☐	<0.0002	<0.0009	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9M Nickel, Total (7440-02-0)	☒	☐	☐	<0.005	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10M Selenium, Total (7782-49-2)	☒	☐	☐	<0.010	<0.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11M Silver, Total (7440-22-4)	☒	☐	☐	<0.005	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
12M Thallium, Total (7440-28-0)	☒	☐	☐	<0.010	<0.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
13M Zinc, Total (7440-66-6)	☒	☐	☐	0.13	0.57	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
14M Cyanide, Total (57-12-5)	☒	☐	☐	<0.020	<0.09	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
15M Phenols, Total	☒	☐	☐	<0.010	<0.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)	☐	☐	☒	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

(DSN001A)

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'			2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	☒	☐	☐	<0.020	<0.09	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2V Acrylonitrile (107-13-1)	☒	☐	☐	<0.010	<0.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3V Benzene (71-43-2)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4V Bis (Chloromethyl) Ether (542-88-1)	☐	☐	☒	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5V Bromoform (75-25-2)	☒	☐	☐	<0.005	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6V Carbon Tetrachloride (56-23-5)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7V Chlorobenzene (108-90-7)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8V Chlorodibromomethane (124-48-1)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9V Chloroethane (75-00-3)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10V 2-Chloroethylvinyl Ether (110-75-8)	☒	☐	☐	<0.005	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11V Chloroform (67-66-3)	☒	☐	☐	0.008	0.03	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
12V Dichlorobromoethane (75-71-8)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
13V Dichlorodifluoromethane (75-71-8)	☐	☐	☒	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14V 1,1-Dichloroethane (75-34-3)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
15V 1,2-Dichloroethane (107-06-2)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
16V 1,1-Dichloroethylene (75335-4)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
17V 1,2-Dichloropropane (78-87-5)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
18V 1,3-Dichloropropylene (542-76-6)	☒	☐	☐	<0.002	<0.009	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
19V Ethylbenzene (100-41-4)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
20V Methyl Bromide (74-83-9)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
21V Methyl Chloride (74-87-3)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

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EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: AL0023272

OUTFALL NUMBER: DSN001A

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS - VOLATILE COMPOUNDS *(continued)*															
22 V Methylene Chloride (75-09-2)	☒	☐	☐	<0.005	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
23V 1,1,2,2-Tetra-Chloroethane (79-34-5)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
24V Tetrachloro-ethylene (127-18-4)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
25V Toluene (108-88-3)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
26V 1,2-Trans-Dichloroethylene (156-60-5)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
27V 1,1,1-Tri-chloroethane (71-55-6)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
28V 1,1,2-Tri-chloroethane (79-00-5)	☒	☐	☐	<0.005	<0.02	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
29V Trichloro-ethylene (79-01-6)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
30V Trichloro-fluoromethane (75-69-4)	☐	☐	☒	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
31V Vinyl Chloride (75-01-4)	☒	☐	☐	<0.001	<0.004	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
GC/MS FRACTION - ACID COMPOUNDS															
1A 2-Chlorophenol (95-57-8)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2A 2,4-Dichloro-phenol (120-83-2)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3A 2,4-Dimethyl-phenol (105-67-9)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4A 4,6-Dinitro-O-cresol (534-52-1)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
5A 2,4-Dinitro-phenol (51-28-5)	☒	☐	☐	<0.028	<0.124	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6A 2-Nitro-phenol (88-75-5)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7A 4-Ntro-phenol (100-02-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8A P-Chloro-M-Cresol (59-50-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9A Penta-chlorophenol (87-86-5)	☒	☐	☐	<0.019	<0.084	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10A Phenol (10/-95-2)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11A 2,4,6-Tri-chlorophenol (88-06-2)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

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(DSN001A)

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B Acenphthene (83-32-9)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2B Acenaphtylene (208-96-8)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3B Anthracene (120-12-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4B Benzidine (92-87-5)	☒	☐	☐	<0.023	<0.102	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
5B Benzo (a) Anthracene (56-55-3)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6B Benzo (a) Pyrene (50-32-8)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7B 3,4-Benzo-fluoranthene (205-99-2)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8B Benzo *(ghi)* Perylene (191-24-2)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9B Benzo *(k)* Fluoranthene (207-08-9)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10B Bis *(2-Chloroethoxy)* Methane (111-91-1)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11B Bis *(2-Chloro-ethyl)* Ether (111-44-4)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
12B Bis *(2-Chloroisopropyl)* Ether (102-60-1	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
13B Bis*(2-Ethyl-hexyl)* Phthalate (117-81-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
14 B 4-Bromo-phenyl Phenyl Ether (101-55-3)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
15B Butyl Benzyl Phthalate (85-68-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
16B 2-Chloro-naphthalene (91-68-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
17B 4-Chloro-phenyl Phenyl Ether (7005-72-3)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
18B Chrysene (218-01-9)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
19B Dibenzo *(a,h)* Anthracene (53-70-3)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
20B 1,2-Dichloro-benzene (95-50-1)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
21B 1,3-Dichloro-benzene (541-73-1)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

CONTINUE ON PAGE V-7

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: AL0023272

OUTFALL NUMBER: DSN001A

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS - BASE/NEUTRAL COMPOUNDS *(continued)*															
22B 1,4-Dichlorobenzene (106-46-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
23B 3,3'-Dichlorobenzidine (91-94-1)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
24B Diethyl Phthalate (84-66-2)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
25B Dimethyl Phthalate (131-11-3)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
26B Di-N-Butyl Phthalate (131-11-3)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
27B 2,4-Dinitrotoluene (121-14-2)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
28B 2,6-Dinitrotoluene (606-20-2)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
29B Di-N-Octyl Phthalate (117-84-0)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
30B 1,2-Diphenylhydrazine (as *Azo-benzene*) (122-66-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
31B Fluoranthene (206-44-0)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
32B Fluorene (86-73-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
33B Hexachlorobenzene (118-74-1)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
34B Hexachlorobutadiene (87-68-3)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
35B Hexachlorocyclopentadiene (77-47-4)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
36B Hexachloroethane (67-72-1)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
37B Indeno *(1,2,3-cd)* Pyrene (193-39-5)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
38B Isophorone (78-59-1)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
39B Napthalene (91-20-3)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
40B Nitrobenzene (98-95-3)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
41B N-Nitrosodimethylamine (62-75-9)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
42B N-Nitrosdi-N-Propylamine (621-64-7)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

CONTINUED FROM THE FRONT

(DSN001A)

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'			2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B N-Nitrosodiphenylamine (86-30-6)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
44B Phenanthrene (85-01-/	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
45B Pyrene (129-00-0)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
46B 1,2,4-Trichlorobenzene (120-82-1)	☒	☐	☐	<0.009	<0.040	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
GC/MS FRACTION - PESTICIDES															
1P Aldrin (309-00-2)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
2P β-Bhc (319-85-7)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
4P γ-BHC (58-89-9)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
5P δ-BHC (319-86-8)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
6P Chlordane (57-74-9)	☒	☐	☐	<0.47	<0.0021	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
7P 4,4'-DDT (50-29-3)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
8P 4,4'-DDE (72-55-9)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
9P 4,4'-DDD (72-54-8)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
10P Dieldrin (60-57-1)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
11P α-Endosulfan (115-29-7)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
12P β-Endosulfan (115-29-7	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
13P Endosulfan Sulfate (1031-07-8)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
14P Endrin (72-20-8)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
15P Endrin Aldehyde (7421-93-4)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
16P Heptachlor (76-44-8)	☒	☐	☐	<0.019	<0.0001	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a

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EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: *AL0023272*

OUTFALL NUMBER: *DSN001A*

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS - PESTICIDES *(continued)*															
17P Heptachlor Expxide (1024-57-3)	☒	☐	☐	*<0.019*	*<0.0001*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Ug/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
18P PCB-1242 (53469-21-9)	☒	☐	☐	*<0.47*	*<0.002*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Ug/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
19P PCB-1254 (11097-69-1)	☒	☐	☐	*<0.47*	*<0.002*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Ug/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
20P PCB-1221 (11104-28-2)	☒	☐	☐	*<0.47*	*<0.002*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Ug/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
21P PCB-1232 (11141-16-5)	☒	☐	☐	*<0.47*	*<0.002*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Ug/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
22P PCB-1248 (12672-29-6)	☒	☐	☐	*<0.47*	*<0.002*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Ug/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
23P PCB-1260 (11096-82-5)	☒	☐	☐	*<0.47*	*<0.002*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Ug/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
24P PCB-1016 (12674-11-2)	☒	☐	☐	*<0.47*	*<0.002*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Ug/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*
25P Toxaphene (8001-35-2)	☒	☐	☐	*<2.8*	*<0.012*	*n/a*	*n/a*	*n/a*	*n/a*	*1*	*Ug/l*	*Lbs/da*	*n/a*	*n/a*	*n/a*

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*
AL0023272 (DSN001B)

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

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.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	2. EFFLUENT d. NO. OF ANALYSIS	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS (specify if blank) b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	8.3	70.6	4.8	24.1	2.6	13.1	361	Mg/l	Lbs/da	n/a	n/a	n/a
b. Chemical Oxygen Demand *(COD)*	20	1205	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
c. Total Organic Carbon *(TOC)*	66.1	396	52.7	254	39.3	193	153	Mg/l	Lbs/da	n/a	n/a	n/a
d. Total Suspended Solids *(TSS)*	3.0	31	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
e. Ammonia *(as N)*	2.2	19.9	0.54	3.8	0.16	0.8	361	Mg/l	Lbs/da	n/a	n/a	n/a
f. Flow	Value 1.245		Value 0.728		Value 0.600		366	MGD	n/a	Value n/a		n/a
g. Temperature *(winter)*	Value Ambient		Value Ambient		Value Ambient		n/a	°C		Value n/a		n/a
h. Temperature *(summer)*	Value Ambient		Value Ambient		Value Ambient		n/a	°C		Value n/a		n/a
i. pH	Minimum 7.4	Maximum 8.7	Minimum 7.4	Maximum 8.7			361	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitation guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	2. EFFLUENT d. NO. OF ANALYSIS	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS (specify if blank) b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) b. NO. OF ANALYSES
a. Bromide (24959-67-9)	☐	☒	<5.0	<52	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
b. Chlorine, Total Residual	☐	☒	<0.05	<0.5	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
c. Color	☐	☒	57	n/a	n/a	n/a	n/a	n/a	1	CU	n/a	n/a	n/a	n/a
d. Fecal Coliform	☐	☒	490	n/a	n/a	n/a	n/a	n/a	1	CFU/100 mls	n/a	n/a	n/a	n/a
e. Fluoride (16984-48-8)	☒	☐	<1.0	<10	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
f. Nitrate-Nitrite *(as N)*	☒	☐	5.2	54	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		2. EFFLUENT						d. NO. OF ANALYSIS	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	☒	☐	1.7	17	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
h. Oil and Grease	☐	☒	<4.5	<47	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
i. Phosphorus (as P), Total (7723-14-0)	☒	☐	39	403	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
j. Radioactivity														
(1) Alpha, Total	☐	☒	0.2 +/- 0.3	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
(2) Bets, Total	☐	☒	215.1 +/- 13.8	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
(3) Radium, Total	☐	☒	0.5 +/- 0.5	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
(4) Radium 226, Total	☐	☒	0.4 +/- 0.2	n/a	n/a	n/a	n/a	n/a	1	pCi/l	n/a	n/a	n/a	n/a
k. Sulfate (as SO_4) (14808-79-8)	☒	☐	880	9,137	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
l. Sulfide (as S)	☐	☒	<0.10	<1.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
m. Sulfite (as SO_3)(14265-45-3)	☐	☒	<0.64	<6.6	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
n. Surfactants	☐	☒	0.14	1.45	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
o. Aluminum, Total (7429-90-5)	☐	☒	<0.10	<1.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
p. Barium, Total (7440-39-3)	☒	☐	<0.01	<0.104	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
q. Boron, Total (7440-42-8)	☐	☒	<0.10	<1.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
r. Cobalt, Total (7440-48-4)	☐	☒	<0.01	<0.104	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
s. Iron, Total (7439-89-4)	☒	☐	<0.10	<1.04	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
t. Magnesium, Total (7439-95-4)	☒	☐	2.8	29	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
u. Molybdenum, Total (7439-98-7)	☐	☒	0.037	0.38	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
v. Manganese, Total (7439-96-5)	☐	☒	0.016	0.166	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
w. Tin, Total (7440-31-5)	☒	☐	<0.01	<0.104	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
x. Titanium, Total (7440-32-6)	☐	☒	<0.005	<0.052	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
AL0023272	*DSN001B*

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1m. Antimony, Total (7440-36-0)	☒	☐	☐	<0.05	<0.52	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2M. Arsenic, Total (7440-38-2)	☒	☐	☐	<0.005	<0.052	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3M. Beryllium, Total (7440-41-7)	☒	☐	☐	<0.003	<0.031	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4M. Cadmium, Total (7440-43-9)	☒	☐	☐	<0.005	<0.052	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
5M Chromium, Total (7440-47-3)	☒	☐	☐	<0.010	<0.104	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6M Copper, Total (7440-50-8)	☒	☐	☐	<0.010	<0.104	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7M lead, Total (7439-92-1)	☒	☐	☐	<0.005	<0.052	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8M Mercury, Total (7439-97-6)	☒	☐	☐	<0.0002	<0.002	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9M Nickel, Total (7440-02-0)	☒	☐	☐	0.012	0.125	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10M Selenium, Total (7782-49-2)	☒	☐	☐	<0.010	<0.104	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11M Silver, Total (7440-22-4)	☒	☐	☐	<0.005	<0.052	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
12M Thallium, Total (7440-28-0)	☒	☐	☐	<0.010	<0.104	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
13M Zinc, Total (7440-66-6)	☒	☐	☐	0.062	0.644	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
14M Cyanide, Total (57-12-5)	☒	☐	☐	<0.020	<0.21	<0.020	<0.12	<0.020	<0.10	26	Mg/l	Lbs/da	n/a	n/a	n/a
15M Phenols, Total	☒	☐	☐	<0.010	<0.104	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)	☐	☐	☒	DESCRIBE RESULTS											

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'			2. EFFLUENT						d. NO. OF ANALYSIS	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	☒	☐	☐	<0.020	<0.208	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2V Acrylonitrile (107-13-1)	☒	☐	☐	<0.010	<0.104	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3V Benzene (71-43-2)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4V Bis (Chloromethyl) Ether (542-88-1)	☐	☐	☒	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5V Bromoform (75-25-2)	☒	☐	☐	<0.005	<0.052	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6V Carbon Tetrachloride (56-23-5)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7V Chlorobenzene (108-90-7)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8V Chlorodibromomethane (124-48-1)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9V Chloroethane (75-00-3)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10V 2-Chloroethylvinyl Ether (110-75-8)	☒	☐	☐	<0.005	<0.052	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11V Chloroform (67-66-3)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
12V Dichlorobromoethane (75-71-8)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
13V Dichlorodifluoromethane (75-71-8)	☐	☐	☒	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
14V 1,1-Dichloroethane (75-34-3)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
15V 1,2-Dichloroethane (107-06-2)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
16V 1,1-Dichloroethylene (75335-4)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
17V 1,2-Dichloropropane (78-87-5)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
18V 1,3-Dichloropropylene (542-76-6)	☒	☐	☐	<0.002	<0.021	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
19V Ethylbenzene (100-41-4)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
20V Methyl Bromide (74-83-9)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
21V Methyl Chloride (74-87-3)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: *AL0023272*

OUTFALL NUMBER: *DSN001B*

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS - VOLATILE COMPOUNDS *(continued)*															
22 V Methylene Chloride (75-09-2)	☒	☐	☐	<0.005	<0.052	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
23V 1,1,2,2-Tetra-Chloroethane (79-34-5)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
24V Tetrachloro-ethylene (127-18-4)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
25V Toluene (108-88-3)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
26V 1,2-Trans-Dichloroethylene (156-60-5)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
27V 1,1,1-Tri-chloroethane (71-55-6)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
28V 1,1,2-Tri-chloroethane (79-00-5)	☒	☐	☐	<0.005	<0.052	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
29V Trichloro-ethylene (79-01-6)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
30V Trichloro-fluoromethane (75-69-4)	☐	☐	☒	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
31V Vinyl Chloride (75-01-4)	☒	☐	☐	<0.001	<0.010	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
GC/MS FRACTION - ACID COMPOUNDS															
1A 2-Chlorophenol (95-57-8)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2A 2,4-Dichloro-phenol (120-83-2)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3A 2,4-Dimethyl-phenol (105-67-9)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4A 4,6-Dinitro-O-cresol (534-52-1)	☒	☐	☐	<0.050	<0.343	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
5A 2,4-Dinitro-phenol (51-28-5)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6A 2-Nitro-phenol (88-75-5)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7A 4-Ntro-phenol (100-02-7)	☒	☐	☐	<0.050	<0.343	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8A P-Chloro-M-Cresol (59-50-7)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9A Penta-chlorophenol (87-86-5)	☒	☐	☐	<0.050	<0.343	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10A Phenol (10/-95-2)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11A 2,4,6-Tri-chlorophenol (88-06-2)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'			2. EFFLUENT						d. NO. OF ANALYSIS	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B Acenphthene (83-32-9)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
2B Acenaphtylene (208-96-8)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
3B Anthracene (120-12-7)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
4B Benzidine (92-87-5)	☒	☐	☐	<0.080	<0.549	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
5B Benzo (a) Anthracene (56-55-3)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
6B Benzo (a) Pyrene (50-32-8)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
7B 3,4-Benzo-fluoranthene (205-99-2)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
8B Benzo (ghi) Perylene (191-24-2)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
9B Benzo (k) Fluoranthene (207-08-9)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
10B Bis (2-Chloroethoxy) Methane (111-91-1)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
11B Bis (2-Chloro-ethyl) Ether (111-44-4)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
12B Bis (2-Chloroisopropyl) Ether (102-60-1	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
13B Bis(2-Ethyl-hexyl) Phthalate (117-81-7)	☒	☐	☐	0.029	0.199	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
14 B 4-Bromo-phenyl Phenyl Ether (101-55-3)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
15B Butyl Benzyl Phthalate (85-68-7)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
16B 2-Chloro-naphthalene (91-68-7)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
17B 4-Chloro-phenyl Phenyl Ether (7005-72-3)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
18B Chrysene (218-01-9)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
19B Dibenzo (a,h) Anthracene (53-70-3)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
20B 1,2-Dichloro-benzene (95-50-1)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
21B 1,3-Dichloro-benzene (541-73-1)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

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EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: AL0023272

OUTFALL NUMBER: DSN001B

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS - BASE/NEUTRAL COMPOUNDS *(continued)*															
22B 1,4-Dichlorobenzene (106-46-7)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
23B 3,3'-Dichlorobenzidine (91-94-1)	☒	☐	☐	<0.020	<0.137	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
24B Diethyl Phthalate (84-66-2)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
25B Dimethyl Phthalate (131-11-3)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
26B Di-N-Butyl Phthalate (131-11-3)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
27B 2,4-Dinitrotoluene (121-14-2)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
28B 2,6-Dinitrotoluene (606-20-2)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
29B Di-N-Octyl Phthalate (117-84-0)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
30B 1,2-Diphenylhydrazine *(as Azo-benzene)* (122-66-7)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
31B Fluoranthene (206-44-0)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
32B Fluorene (86-73-7)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
33B Hexachlorobenzene (118-74-1)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
34B Hexachlorobutadiene (87-68-3)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
35B Hexachlorocyclopentadiene (77-47-4)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
36B Hexachloroethane (67-72-1)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
37B Indeno *(1,2,3-cd)* Pyrene (193-39-5)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
38B Isophorone (78-59-1)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
39B Napthalene (91-20-3)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
40B Nitrobenzene (98-95-3)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
41B N-Nitrosodimethylamine (62-75-9)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
42B N-Nitrosdi-N-Propylamine (621-64-7)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'			2. EFFLUENT						d. NO. OF ANALYSIS	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B N-Nitrosodiphenylamine (86-30-6)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
44B Phenanthrene (85-01-/	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
45B Pyrene (129-00-0)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
46B 1,2,4-Trichlorobenzene (120-82-1)	☒	☐	☐	<0.010	<0.069	n/a	n/a	n/a	n/a	1	Mg/l	Lbs/da	n/a	n/a	n/a
GC/MS FRACTION - PESTICIDES															
1P Aldrin (309-00-2)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
2P β-Bhc (319-85-7)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
4P γ-BHC (58-89-9)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
5P δ-BHC (319-86-8)	☒	☐	☐	<0.047	<0.0005	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
6P Chlordane (57-74-9)	☒	☐	☐	<0.47	<0.0049	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
7P 4,4'-DDT (50-29-3)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
8P 4,4'-DDE (72-55-9)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
9P 4,4'-DDD (72-54-8)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
10P Dieldrin (60-57-1)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
11P α-Endosulfan (115-29-7)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
12P β-Endosulfan (115-29-7	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
13P Endosulfan Sulfate (1031-07-8)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
14P Endrin (72-20-8)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
15P Endrin Aldehyde (7421-93-4)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
16P Heptachlor (76-44-8)	☒	☐	☐	0.037	0.0004	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: *AL0023272*

OUTFALL NUMBER: *DSN001B*

1. POLLUTANT AND CAS NO. *(if available)*	2. MARK 'X'			2. EFFLUENT							3. UNITS *(specify if blank)*		4. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSIS	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS - PESTICIDES *(continued)*															
17P Heptachlor Epoxide (1024-57-3)	☒	☐	☐	<0.019	<0.0002	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
18P PCB-1242 (53469-21-9)	☒	☐	☐	<0.48	<0.005	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
19P PCB-1254 (11097-69-1)	☒	☐	☐	<0.48	<0.005	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
20P PCB-1221 (11104-28-2)	☒	☐	☐	<0.48	<0.005	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
21P PCB-1232 (11141-16-5)	☒	☐	☐	<0.48	<0.005	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
22P PCB-1248 (12672-29-6)	☒	☐	☐	<0.48	<0.005	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
23P PCB-1260 (11096-82-5)	☒	☐	☐	<0.48	<0.005	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
24P PCB-1016 (12674-11-2)	☒	☐	☐	<0.48	<0.005	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a
25P Toxaphene (8001-35-2)	☒	☐	☐	<2.8	<0.029	n/a	n/a	n/a	n/a	1	Ug/l	Lbs/da	n/a	n/a	n/a

Please print or type in the unshaded areas	EPA ID Number *(copy from item I of Form 1)* **AL0023272**	Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

Form **2F** NPDES

United States 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, 401 M St., SW, 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)*
DSN002	***30.00***	***31.00***	***39.00***	***88.00***	***8.00***	***1.00***	***Unnamed Tributary to Middle Fork Deer R.***
DSN003	***30.00***	***31.00***	***26.00***	***88.00***	***7.00***	***58.00***	***Unnamed Tributary to Middle Fork Deer R.***
DSN005	***30.00***	***30.00***	***49.00***	***88.00***	***8.00***	***19.00***	***Unnamed Tributary to Middle Fork Deer R.***

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.
None					

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 idicate 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 outfall(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 structure 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 are 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 receive storm water discharges from the facility.

Continued on Page 2

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)
002	***3,974,413 sq.ft.***	***8,625,000 sq.ft.***			
003	***962,841 sq.ft.***	***2,063.000 sq.ft.***			
005	***364,000 sq.ft.***	***479,200 sq.ft.***			

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.

Please see Best Management Practices Plan on file with ADEM.
Past and Present Material Management Practices include:
- Above ground storage tanks with secondary containment.
-Drainage from production units meet BMP Plan requirements or pumped to WWTP.
- Valves in concrete ditches for containment and sampling.
- 90 day storage of hazardous waste is enclosed to minimize exposure.
- Standard lawn chemicals are applied to control weed growth.

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
002	***None***	***4-A***
003	***None***	***4-A***
005	***None***	***4-A***

V. Non Stormwater 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 discharges from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

Name of Official Title *(type or print)*	Signature	Date Signed
Ms. Bonnie Tully, Vice President & Site Manager		

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.

As per these instructions on 01/19/17 (002,003 & 005)

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.

1/17/14: Sodium Hydroxide (900 lbs) Utilities

2/06/15: Hydrochloric Acid (5 lbs) SKW Quab Plant

2/03/16: Epichlorohydrin (2.1 lbs) SKW Quab Plant

9/20/16: Sodium Hydroxide (12645 lbs) Utilities

 Continued on Page 3

EPA ID Number *(copy from Item I of Form 1)*
AL0023272

VII. Discharge Information

A,B,C, & D: See instruction before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables Vii-A, VII-B, and VII-C are included on separate sheets numbered 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)*

It is a requirement of the existing NPDES Permit to perform two (2) Chronic Bioassay Toxicity Tests on the final discharge (DSN001).

Cyprinodon variegatus (7-day) Bioassay	***Once per quarter***
Arbacia Bioassay	***Once per month***

IX. Contact analysis Information

Were any of the analysis reported in item VII performed by a contact 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
TestAmerica Lab, Inc.	***900 Lakeside Drive; Mobile***	***251-666-6633***	***Volatiles, Semivolatiles, Metals & O/G.***

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)*	B. Area Code and Phone No.
Ms Bonnie Tully, Vice President and Site Manager	***251-443-4000***
C. Signature 	D. Date Signed 1/31/2017

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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease	<4.5 mg/l	N/A	N/A	N/A	1	
Biological Oxygen Demand (BOD5)	<2.0 mg/l	2.6 mg/l	N/A	N/A	1	
Chemical Oxygen Demand (COD)	2 mg/l	9 mg/l	N/A	N/A	1	
Total Suspended Solids (TSS)	21 mg/l	84 mg/l	N/A	N/A	1	
Total Organic Nitrogen	0.25mg/l	0.38 mg/l	N/A	N/A	1	
Nitrate plus Nitrate Nitrogen	0.22 mg/l	0.10 mg/l	N/A	N/A	1	
Total Phosphorus	<0.020 mg/l	<0.020 mg/l	N/A	N/A	1	
pH	Min. 7.4	Max. 7.6	N/A	N/A	1	

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 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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
NH3-N	0.35 mg/l	0.32 mg/l	N/A	N/A	1	
TOC	3.0 mg/l	4.0 mg/l	N/A	N/A	1	
Chlorides	294 mg/l	163 mg/l	N/A	N/A	1	
T. Cyanide	<0.020 mg/l	<0.020 mg/l	N/A	N/A	1	
TDS	740 mg/l	420 mg/l	N/A	N/A	1	
T. Copper	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
T. Lead	<0.005 mg/l	0.005 mg/l	N/A	N/A	1	
T. Nickel	<0.005 mg/l	0.0055 mg/l	N/A	N/A	1	
T. Zinc	0.050 mg/l	0.310 mg/l	N/A	N/A	1	
T. Chromium	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Acrylonitrile	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Benzene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Carbon Tetrachloride	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Chlorobenzene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,2,4 – TCB	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
HCB	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
1,2 – DCE	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,1,1 – TCE	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
HCE	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
1,1 – DCE	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,1,2 – TCE	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Chloroethane	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Chloroform	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,2 – DCB	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,3 – DCB	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,4 – DCB	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,1 – DCEY	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,2 – TDCEY	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	

Part B Con't - **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 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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
1,2 – DCPP	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,3 – DCPPY	<0.002 mg/l	<0.002 mg/l	N/A	N/A	1	
Ethyl Benzene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
MTHYCL	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Methyl Chloride	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
HCBD	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Nitrobenzene	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
2 – NP	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
4 – NP	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
2,4 – DNP	<0.028 mg/l	<0.028 mg/l	N/A	N/A	1	
4,6 – DNOC	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Toluene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
TCETHY	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Vinyl Chloride	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
ACNAPTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
ANPHY	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
ANTHRC	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
B(A)ANTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
3,4 – BFANT	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
B(K)FANTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
B(A)Pyrene	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
B(2 – EH)PH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
2,4 – DMP	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
FLANTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
NAPH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Phenol	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
DNB –PH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
DMPH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Chrysene	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
FLUOR	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
PHANTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
PYRENE	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
MEK	<0.025 mg/l	<0.025 mg/l	N/A	N/A	1	
ACETONE	0.083 mg/l	<0.025 mg/l	N/A	N/A	1	

Continued from the Front

Part C - **List each pollutant shown in Tables 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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Chlorine, T.R.	<0.10 mg/l	N/A	N/A	N/A	1	
Fecal Coliform	670 cfu/100mls	N/A	N/A	N/A	1	
Fluoride	0.24 mg/l	0.26 mg/l	N/A	N/A	1	
Sulfate	19 mg/l	21 mg/l	N/A	N/A	1	
Sulfite	<0.64 mg/l	<0.64 mg/l	N/A	N/A	1	
Surfactants	<0.10 mg/l	<0.10 mg/l	N/A	N/A	1	
Aluminum, T	0.98 mg/l	1.9 mg/l	N/A	N/A	1	
Barium, T	0.12 mg/l	0.067 mg/l	N/A	N/A	1	
Boron, T	<0.10 mg/l	<0.10 mg/l	N/A	N/A	1	
Cobalt, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Iron, T	5.3 mg/l	6.1 mg/l	N/A	N/A	1	
Magnesium, T	18 mg/l	7.9 mg/l	N/A	N/A	1	
Molybdenum, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Manganese, T	0.37 mg/l	0.15 mg/l	N/A	N/A	1	
Tin, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Titanium, T	0.0067 mg/l	0.022 mg/l	N/A	N/A	1	
Antimony, T	<0.050 mg/l	<0.050 mg/l	N/A	N/A	1	
Arsenic, T	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Beryllium, T	<0.003 mg/l	<0.003 mg/l	N/A	N/A	1	
Cadmium, T	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Selenium, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Thallium, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Phenols, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Acrolein	<0.020 mg/l	<0.020 mg/l	N/A	N/A	1	
Isophorone	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Allyl Chloride	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Carbon disulfide	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Epichlorohydrin	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Methylmethacrylate	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Trimethylamine	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	

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 *(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)*	7. Season sample was taken	8. Form of Precipitation *(rainfall, snowmelt)*
01/19/17	180	0.40	~216	999.21 gal/min	0.180 MG	Winter	Rainfall

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

Marsh McBirney Digital Flow Meter Model #2000.

EPA ID Number *(Copy from Item I of Form 1)*

AL0023272 – DSN003

Form Approved
OMB No. 2040-0086.

Approval expires 8-31-98.

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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease	<4.7 mg/l	N/A	N/A	N/A	1	
Biological Oxygen Demand (BOD5)	3.1 mg/l	2.1 mg/l	N/A	N/A	1	
Chemical Oxygen Demand (COD)	24 mg/l	7 mg/l	N/A	N/A	1	
Total Suspended Solids (TSS)	56 mg/l	51 mg/l	N/A	N/A	1	
Total Organic Nitrogen	0.50 mg/l	0.31 mg/l	N/A	N/A	1	
Nitrate plus Nitrate Nitrogen	0.30 mg/l	0.34 mg/l	N/A	N/A	1	
Total Phosphorus	<0.020 mg/l	<0.020 mg/l	N/A	N/A	1	
pH	Min. 7.7	Max. 7.7	N/A	N/A	1	

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 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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
NH3-N	<0.10 mg/l	0.21 mg/l	N/A	N/A	1	
TOC	6.0 mg/l	4.0 mg/l	N/A	N/A	1	
Chlorides	80 mg/l	122 mg/l	N/A	N/A	1	
T. Cyanide	<0.020 mg/l	<0.020 mg/l	N/A	N/A	1	
TDS	80 mg/l	460 mg/l	N/A	N/A	1	
T. Copper	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
T. Lead	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
T. Nickel	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
T. Zinc	0.022 mg/l	<0.020 mg/l	N/A	N/A	1	
T. Chromium	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Acrylonitrile	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Benzene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Carbon Tetrachloride	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Chlorobenzene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,2,4 – TCB	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
HCB	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
1,2 – DCE	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,1,1 – TCE	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
HCE	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
1,1 – DCE	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,1,2 – TCE	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Chloroethane	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Chloroform	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,2 – DCB	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,3 – DCB	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,4 – DCB	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,1 – DCEY	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,2 – TDCEY	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	

Part B Con't - **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 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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
1,2 – DCPP	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,3 – DCPPY	<0.002 mg/l	<0.002 mg/l	N/A	N/A	1	
Ethyl Benzene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
MTHYCL	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Methyl Chloride	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
HCBD	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Nitrobenzene	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
2 – NP	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
4 – NP	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
2,4 – DNP	<0.028 mg/l	<0.028 mg/l	N/A	N/A	1	
4,6 – DNOC	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Toluene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
TCETHY	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Vinyl Chloride	<0.001mg/l	<0.001 mg/l	N/A	N/A	1	
ACNAPTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
ANPHY	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
ANTHRC	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
B(A)ANTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
3,4 – BFANT	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
B(K)FANTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
B(A)Pyrene	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
B(2 – EH)PH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
2,4 – DMP	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
FLANTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
NAPH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Phenol	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
DNB –PH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
DMPH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Chrysene	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
FLUOR	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
PHANTH	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
PYRENE	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
MEK	<0.025 mg/l	<0.025 mg/l	N/A	N/A	1	
Acetone	0.340 mg/l	<0.025 mg/l	N/A	N/A	1	

Continued from the Front

Part C - **List each pollutant shown in Tables 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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Chlorine, T.R.	<0.10 mg/l	N/A	N/A	N/A	1	
Fecal Coliform	100 cfu/100mls	N/A	N/A	N/A	1	
Fluoride	<0.20 mg/l	<0.20 mg/l	N/A	N/A	1	
Sulfate	5.5 mg/l	7.8 mg/l	N/A	N/A	1	
Sulfite	<0.64 mg/l	<0.64 mg/l	N/A	N/A	1	
Surfactants	<0.10 mg/l	<0.10 mg/l	N/A	N/A	1	
Aluminum, T	1.3 mg/l	0.54 mg/l	N/A	N/A	1	
Barium, T	0.094 mg/l	0.077 mg/l	N/A	N/A	1	
Boron, T	<0.10 mg/l	<0.10 mg/l	N/A	N/A	1	
Cobalt, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Iron, T	2.2 mg/l	2.3 mg/l	N/A	N/A	1	
Magnesium, T	4.9 mg/l	4.5 mg/l	N/A	N/A	1	
Molybdenum, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Manganese, T	0.054 mg/l	0.063 mg/l	N/A	N/A	1	
Tin, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Titanium, T	0.019 mg/l	0.0098 mg/l	N/A	N/A	1	
Antimony, T	<0.050 mg/l	<0.050 mg/l	N/A	N/A	1	
Arsenic, T	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Beryllium, T	<0.003 mg/l	<0.003 mg/l	N/A	N/A	1	
Cadmium, T	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Selenium, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Thallium, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Phenols, T	<0.010 mg/l	N/A	N/A	N/A	1	
Acrolein	<0.020 mg/l	<0.020 mg/l	N/A	N/A	1	
Isophorone	<0.009 mg/l	<0.009 mg/l	N/A	N/A	1	
Allyl Chloride	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Carbon disulfide	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Epichlorohydrin	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Methyl methacrylate	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Trimethylamine	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	

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 *(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)*	7. Season sample was taken	8. Form of Precipitation *(rainfall, snowmelt)*
01/19/17	180	0.40	~216	141.86 gal/min	0.026 MG	Winter	Rainfall

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

Marsh McBirney Digital Flow Meter Model #2000.

EPA ID Number *(Copy from Item I of Form 1)*

AL0023272 – DSN005

Form Approved
OMB No. 2040-0086.

Approval expires 8-31-98.

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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Oil and Grease	<5.0 mg/l	N/A	N/A	N/A	1	
Biological Oxygen Demand (BOD5)	3.3 mg/l	3.7 mg/l	N/A	N/A	1	
Chemical Oxygen Demand (COD)	11 mg/l	20 mg/l	N/A	N/A	1	
Total Suspended Solids (TSS)	20 mg/l	43 mg/l	N/A	N/A	1	
Total Organic Nitrogen	0.53 mg/l	0.77 mg/l	N/A	N/A	1	
Nitrate plus Nitrate Nitrogen	0.13 mg/l	0.60 mg/l	N/A	N/A	1	
Total Phosphorus	<0.020 mg/l	<0.020 mg/l	N/A	N/A	1	
pH	Min. 7.7	Max. 7.8	N/A	N/A	1	

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 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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
NH3-N	0.32 mg/l	0.10 mg/l	N/A	N/A	1	
TOC	5.0 mg/l	6.0 mg/l	N/A	N/A	1	
Chlorides	68 mg/l	6 mg/l	N/A	N/A	1	
T. Cyanide	<0.020 mg/l	<0.020 mg/l	N/A	N/A	1	
TDS	160 mg/l	80 mg/l	N/A	N/A	1	
T. Copper	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
T. Lead	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
T. Nickel	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
T. Zinc	0.082 mg/l	0.012 mg/l	N/A	N/A	1	
T. Chromium	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Acrylonitrile	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Benzene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Carbon Tetrachloride	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Chlorobenzene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,2,4 – TCB	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
HCB	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
1,2 – DCE	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,1,1 – TCE	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
HCE	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
1,1 – DCE	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,1,2 – TCE	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Chloroethane	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Chloroform	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,2 – DCB	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,3 – DCB	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,4 – DCB	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,1 – DCEY	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,2 – TDCEY	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	

Part B Con't - 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 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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
1,2 – DCPP	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
1,3 – DCPPY	<0.002 mg/l	<0.002 mg/l	N/A	N/A	1	
Ethyl Benzene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
MTHYCL	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Methyl Chloride	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
HCBD	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Nitrobenzene	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
2 – NP	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
4 – NP	<0.010 mg/l	<0.050 mg/l	N/A	N/A	1	
2,4 – DNP	<0.029 mg/l	<0.029 mg/l	N/A	N/A	1	
4,6 – DNOC	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Toluene	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
TCETHY	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Vinyl Chloride	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
ACNAPTH	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
ANPHY	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
ANTHRC	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
B(A)ANTH	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
3,4 – BFANT	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
B(K)FANTH	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
B(A)Pyrene	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
B(2 – EH)PH	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
2,4 – DMP	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
FLANTH	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
NAPH	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Phenol	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
DNB –PH	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
DMPH	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Chrysene	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
FLUOR	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
PHANTH	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
PYRENE	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
MEK	<0.025 mg/l	<0.025 mg/l	N/A	N/A	1	
Acetone	0.094 mg/l	0.029 mg/l	N/A	N/A	1	

Continued from the Front

Part C - **List each pollutant shown in Tables 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 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite		
Chlorine, T.R.	<0.10 mg/l	<0.10 mg/l	N/A	N/A	1	
Fecal Coliform	1000 cfu/100mls	N/A	N/A	N/A	1	
Fluoride	<0.20 mg/l	<0.20 mg/l	N/A	N/A	1	
Sulfate	10 mg/l	10 mg/l	N/A	N/A	1	
Sulfite	<0.64 mg/l	<0.64 mg/l	N/A	N/A	1	
Surfactants	<0.10 mg/l	0.15 mg/l	N/A	N/A	1	
Aluminum, T	2.7 mg/l	1.7 mg/l	N/A	N/A	1	
Barium, T	0.030 mg/l	0.027 mg/l	N/A	N/A	1	
Boron, T	<0.10 mg/l	<0.10 mg/l	N/A	N/A	1	
Cobalt, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Iron, T	2.8 mg/l	1.9 mg/l	N/A	N/A	1	
Magnesium, T	1.4 mg/l	1.4 mg/l	N/A	N/A	1	
Molybdenum, T	0.024 mg/l	0.020 mg/l	N/A	N/A	1	
Manganese, T	0.049 mg/l	0.037 mg/l	N/A	N/A	1	
Tin, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Titanium, T	0.036 mg/l	0.024 mg/l	N/A	N/A	1	
Antimony, T	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Arsenic, T	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Beryllium, T	<0.003 mg/l	<0.003 mg/l	N/A	N/A	1	
Cadmium, T	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Selenium, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Thallium, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Phenols, T	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Acrolein	<0.020 mg/l	<0.020 mg/l	N/A	N/A	1	
Isophorone	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Allyl Chloride	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Carbon disulfide	<0.001 mg/l	<0.001 mg/l	N/A	N/A	1	
Epichlorohydrin	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	
Methyl methacrylate	<0.010 mg/l	<0.010 mg/l	N/A	N/A	1	
Trimethylamine	<0.005 mg/l	<0.005 mg/l	N/A	N/A	1	

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 *(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)*	7. Season sample was taken	8. Form of Precipitation *(rainfall, snowmelt)*
01/19/17	180	0.40	~216	136.15 gal/min	0.025 MG	Winter	Rainfall

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

Marsh McBirney Digital Flow Meter Model #2000.

January 31, 2017

Ms. Latoya Hall, Engineer
Alabama Department of Environmental Management
Industrial Section/Water Division
Post Office Box 301463
Montgomery, Alabama, 36130-1463

Enclosed is two (2) copies of the application for Renewal of our NPDES Permit AL0023272. We have also enclosed a check for $19,005.00 to cover the fee for this renewal. This application covers all the Evonik production units and the TBHP, SKW Quab, BASF and Bayer Crop Science production plants located on the Evonik facility all previously permitted.

If you have any questions regarding this application please call me or Chris Bolling at (251) 443-4765 or 251-443-4611 respectively.

Sincerely,

Bill Klutz
Evonik Corporation
Environmental Compliance Manager