DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

CERTIFIED MAIL # _____

Permit No. LA0121975
AI No. 132676
PER20050001

Mr. Donald Lindberg
Sandalwood Exploration, L.P.
1220 Augusta Drive, Suite 400
Houston, Texas 77057
Attn: Mr. Delvin Phelps

RE: Draft Louisiana Pollutant Discharge Elimination System (LPDES) permit to discharge fluids associated with oil and gas exploration, development, and production operations into the Gulf of Mexico from the **SL 18209 Well No. 2, Main Pass Block 6 Production Facility** located approximately 66.7 miles east of Chalmette, Louisiana, in St. Bernard Parish.

Dear Mr. Lindberg:

The Louisiana Department of Environmental Quality (LDEQ) proposes to issue for the first time an LPDES permit with the effluent limitations, monitoring requirements, and special conditions listed in the attached DRAFT PERMIT. Please note that this is a DRAFT PERMIT only and as such does not grant any authorization to discharge. Authorization to discharge in accordance with this permitting action will only be granted after all requirements described herein are satisfied and by the subsequent issuance of a FINAL PERMIT.

The Office will publish the enclosed public notice one time in a local newspaper of general circulation and the Office of Environmental Services Public Notice Mailing List. In accordance with LAC 33:IX.6521.A, the applicant shall receive and is responsible for paying the invoice(s) from the above-mentioned newspaper(s). LAC 33:IX.6521.A states: "...The costs of publication shall be borne by the applicant."

The invoice, fee rating sheets, and a copy of the fee regulations will be sent under a separate cover letter as applicable. A copy of the entire Louisiana Water Quality Regulations may be obtained from the LDEQ, Office of Environmental Assessment, Post Office Box 4314, Baton Rouge, Louisiana 70821-4314, (225) 219-3236.

For sanitary treatment plants, the plans and specifications must be approved by the Department of Health and Hospitals, Office of Public Health, 6867 Bluebonnet Road, Box 7, Baton Rouge, Louisiana 70810, (225) 765-5038.

ENVIRONMENTAL **SERVICES**
: PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
WWW.DEQ.LOUISIANA.GOV

All future correspondence regarding this permit shall use the Agency Interest (AI) No. 132676 and LPDES Permit No. LA0121975.

Should you have any questions concerning any part of the DRAFT PERMIT, public notice requirements, or fee, please contact Ms. Valerie Powe, Industrial Water Permit Section, Office of Environmental Services, at the address on the preceding page or telephone (225) 219-3084.

Sincerely,

Jesse Chang

Jesse Chang
Environmental Scientist Manager
Industrial Water Permit Section

vmp

Attachments including dated public notice & statement of basis

c: cover letter only:

Scott Guilliams
Water & Waste Permits Division

c: cover letter and fee sheet:

Gayle Denino
Office of Management and Finance

c: cover letter, dated public notice, permit (I-II), and statement of basis:

Ms. Valerie Powe
Water & Waste Permits Division

Permit Compliance Unit
Office of Environmental Compliance

c: cover letter, fee sheet, permit and all attachments:

IO-W

Public Notice
Scheduled for Publication

The notice associated with the following:

Re: REQUEST FOR PUBLIC COMMENTS ON A DRAFT WATER DISCHARGE PERMIT
SANDALWOOD EXPLORATION, L.P. & SL 18209 WELL NO. 3, MAIN PASS BLOCK 6 PRODUCTION FACILITY
AI NUMBER 132676, PERMIT NUMBER LA0121975, AND ACTIVITY NUMBER PER20050001
CHALMETTE, ST BERNARD PARISH, LOUISIANA

is scheduled to publish in the following paper (s)

Newspaper(s)	**Scheduled Publication Date***
St Bernard Voice	Friday, February 3, 2006 Friday, February 17, 2006
The Advocate	Friday, February 3, 2006 Friday, February 17, 2006
The Times Picayune	Friday, February 3, 2006 Friday, February 17, 2006

*In accordance with **LAC 33:IX.6521.A**, the applicant is responsible for payment of all costs of publication. Newspaper will bill applicant directly. Questions regarding publication or payment may be directed to:*

DEQ Office of Environmental Services, Public Participation Group Staff:

Name: Dina Heidar

Phone: 225-219-3278

Email: dina.heidar@la.gov

Comments: **This is in a Category 3 parish. The Company is *only* responsible to pay for *one* public notice in *THE ST BERNARD VOICE* newspaper. The LDEQ will pay for the other publications**

***Actual date of publication is pending confirmation of publication by newspaper(s)**

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
SANDALWOOD EXPLORATION, L.P. & SL 18209 WELL NO. 3
MAIN PASS BLOCK 6 PRODUCTION FACILITY
DRAFT WATER DISCHARGE PERMIT

The LDEQ, Office of Environmental Services, is accepting written comments on a draft Louisiana Pollutant Discharge Elimination System (LPDES) permit prepared for Sandalwood Exploration, L.P., SL 18209 Well No. 3, Main Pass Block 6 Production Facility, 1220 Augusta Drive, Suite 400, Houston, Texas 77057. **The facility is located in Main Pass Block 6, approximately 38.5 miles northeasterly of Boothville, Plaquemines Parish which is also approximately 66.7 southeasterly of Chalmette, St Bernard Parish in St Bernard Parish.**

The principal discharge from this existing source is made into the Gulf of Mexico, waters of the state classified for primary contact recreation, secondary contact recreation, fish and wildlife propagation, and oyster propagation. Under the SIC Code 1311, the applicant proposes to discharge certain wastewater streams associated with oil and gas exploration, development, and production operations from the proposed oilfield facility.

During the preparation of this permit, it has been determined that the discharge will have no adverse impact on the existing uses of the receiving waterbody. As with any discharge, however, some change in existing water quality may occur.

Written comments, written requests for a public hearing, or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, March 24, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, draft permit, and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays).

Inquiries or requests for additional information regarding this permit action should be directed to Ms. Valerie Powe, LDEQ, Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3084.

Persons wishing to be included on the LDEQ permit public notice mailing list should contact Ms. Soumaya Ghosn in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3276, or by email at maillistrequest@ldeq.org.

Permit public notices can be viewed on the LDEQ Permits public Web page at WWW.deq.state.la.us/news/PubNotice/.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 132676, Permit Number LA0121975, and Activity Number PER20050001.

Publication Date: Friday, February 3, 2006 in The Advocate, The Times Picayune and The St. Bernard Voice
Friday, February 17, 2006 in The Advocate, The Times Picayune and The St. Bernard Voice

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DRAFT

PERMIT NUMBER
LA0121975
AI No. 132676

DEQ
LOUISIANA

OFFICE OF ENVIRONMENTAL SERVICES

Water Discharge Permit

Pursuant to the Clean Water Act, as amended (33 U.S.C. 1251 et seq.), and the Louisiana Environmental Quality Act, as amended (La. R.S. 30:2001 et seq.), rules and regulations effective or promulgated under the authority of said Acts, and in reliance on statements and representations heretofore made in the application, a Louisiana Pollutant Discharge Elimination System permit is issued authorizing

Sandalwood Exploration, L.P.
SL 18209 Well No. 2, Main Pass Block 6 Area Production Facility
1220 Augusta Drive, Suite 400
Houston, Texas 77057

Type Facility: Oil and Gas Exploration, Development, and Production

Location: SL 18209 Well No. 2, Main Pass Block 6 Area Production Facility approximately 66.7 miles east of Chalmette, Louisiana, St. Bernard Parish

Receiving Waters: Gulf of Mexico

To discharge in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III attached hereto.

This permit shall become effective on_____

This permit and the authorization to discharge shall expire five (5) years from the effective date of the permit.

Issued on_____

_____
Chuck Carr Brown, Ph. D.
Assistant Secretary

DRAFT

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Discharges that are situated within the territorial subcategory of the Oil and Gas Extraction Point Source Category shall be limited and monitored by the permittee as specified below. Notification concerning intent to discharge must be submitted to this Office and the nearest Regional Office listed in Part II, Section R prior to commencement of drilling or workover operations or sanitary waste discharges from production operations.

Discharge Type	Effluent Characteristic	Discharge Limitations Units (Specify)	Monitoring Requirements Measurement Frequency	Sample Type
Drill Cuttings and Adhering Drilling Fluids	NO DISCHARGE			
Batch or Bulk Drilling Fluids	NO DISCHARGE			
Treated Wastewater from Drill Cuttings/ Drilling Fluids Dewatering Operations	NO DISCHARGE			
Produced Sand	NO DISCHARGE			
Well Completion, Treatment, and Workover Fluids (Outfall 001)	Free Oil[2]	No Discharge	1/day	Grab
	Oil and Grease	42 mg/L daily max	1/month	Grab
		29 mg/L mo avg	1/month	Grab
	Priority Pollutants[10]	NO DISCHARGE		
	Flow	Report (GPD)	1/month	Estimate
Produced Water (Outfall 002)	Volume	Report (bbls/day) mo avg	1/month	Estimate
	Oil and Grease[11]	42 mg/L daily max	1/month	Grab
		29 mg/L mo avg	1/month	Grab
	Thallium[12]	Footnote 12	Footnote 13	Grab
	Benzene[12]	Footnote 12	Footnote 13	Grab
	Lead[12]	Footnote 12	Footnote 13	Grab
	Total Phenols[12]	Footnote 12	Footnote 13	Grab
	Toxicity[12]	Footnote 12	Footnote 13	Grab
	Radium 226 and 228	Report	Footnote 13	Grab
Sanitary Waste (Outfall 003)	Floating Solids[3]	No Discharge	1/day	Observe
	BOD_5	45 mg/L weekly avg	1/6 months	Grab
	Total Residual Chlorine[15]	1 mg/L minimum	1/month	Grab
	TSS	45 mg/L weekly avg	1/6 months	Grab
	pH	6.0 standard units minimum 9.0 standard units maximum	1/6 months	Grab
	Flow	Report (GPD) mo avg	1/month	Estimate
Domestic Waste[4] (Outfall 004)	Floating Solids [3] and Visible Foam	No Discharge	1/day	Observe
Source Water and Source Sand (Outfall 005)	Free Oil[1]	No Discharge	1/day	Observe
	Flow	Report (GPD) mo avg	1/month	Estimate
Miscellaneous Discharges of Chemically Treated Seawater and Freshwater (Outfall 006)	Volume	Report (bbls/day) mo avg	1/month	Estimate
	Treatment Chemicals	See Footnote 14		
	Free Oil[1, 17]	No Discharge	1/day	Observe
	Toxicity	Footnote 16	Footnote 16	Grab

These discharges include: excess seawater which permits the continuous operation of fire control and utility lift pumps, excess seawater from pressure maintenance and secondary recovery projects, water released during training of personnel in fire protection, seawater used to pressure test new piping and new pipelines, ballast water, non-contact cooling water, and desalinization unit discharge.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Deck Drainage (Outfall 007)	Free Oil[1]	No Discharge	1/day	Observe
	Flow	Report (GPD) mo avg	1/month	Estimate
Hydrostatic Test Water[6] (Outfall 008)	Flow	Report (GPD)	1/discharge	Estimate
	Total Suspended Solids[7]	90 mg/L net	1/discharge	Grab
	Total Organic Carbon[8]	50 mg/L daily maximum	1/discharge	Grab
	Oil and Grease	15 mg/L daily maximum	1/discharge	Grab
	Benzene[8]	50 µg/L daily maximum	1/discharge	Grab
	Total BTEX[8, 9]	250 µg/L daily maximum	1/discharge	Grab
	Lead[8]	50 µg/L daily maximum	1/discharge	Grab
	pH	6.0 standard units minimum 9.0 standard units maximum	1/discharge	Grab
Miscellaneous Discharges (Outfall 009)	Free Oil[1, 17]	No Discharge	1/day	Observe
	Flow	Report (GPD) mo avg	1/month	Estimate
	Floating Solids [3]	No Discharge	1/day	Observe
	Visible Foam	No Discharge	1/day	Observe

Miscellaneous Discharges include: Non-stormwater Discharges[5]; Boiler Blowdown; Desalinization Unit Blowdown; Diatomaceous Earth Filter Media; Mud, Cuttings and Cement at the Seafloor; Non-Contact Cooling Water; Blow-out Preventer Control Fluid; Uncontaminated Bilge Water; Uncontaminated Ballast Water; Uncontaminated Ambient Water; Uncontaminated Seawater and Excess Cement Slurry.

Samples taken in compliance with the monitoring requirements specified in this permit shall be taken at a location, which is representative of the discharge prior to mixing with receiving waters.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

In addition all discharges are subject to the following limitations:

A. There shall be no discharge of free oil or other materials, which would result in the formation of a visible sheen. There shall be no discharge of any oily sludge or of any materials, which would result in the formation of long-term bottom deposits of slime or sludge. There shall be no discharge of any substance which would result in the formation of distinctly visible floating solids, foam, or scum, in other than trace amounts.

B. There shall be no discharge of toxic materials in quantities such as to cause acute toxicity to aquatic organisms.

C. There shall be no discharge of halogenated phenol compounds.

D. The discharge of surfactants, dispersants, and detergents used to wash working areas shall be minimized except as necessary to comply with applicable State and Federal safety requirements. This restriction applies to tank cleaning and other operations which do not directly involve the safety of workers.

E. If requested, the permittee shall provide the Administrative Authority with a sample of any waste in a manner specified by the Agency.

F. Discharges of well completion, treatment and workover fluids shall be considered produced water for monitoring purposes when commingled with produced water.

G. Permittees wishing to increase mixing for produced water discharges may use a horizontal diffuser, multiple port discharges, or add seawater as described in Footnote 11 below.

H. The discharge of produced water is prohibited onto any intermittently exposed sediment surface within the boundaries of any state or Federal wildlife management area, refuge, or park or into any water body determined to be special ecological significance, within 1,300 feet of an active oyster lease, live natural oyster or other molluscan reef, designated oyster seed bed; or sea grass bed, or which facilitates the incorporation of significant quantities of hydrocarbons or radio nuclides into sediment or biota. Uncontaminated seawater, uncontaminated freshwater, source water and source sand, uncontaminated bilge water, and uncontaminated ballast water may be discharged from platforms that are on automatic purge systems without monitoring for free oil when the facilities are not manned. Additionally, discharges at the sea floor of: muds and cuttings prior to installation of the marine riser, cement, and blowout preventer fluid may be discharged without monitoring with the static sheen test when conditions make observation of a sheen on the surface of the receiving water impossible.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Footnotes:

1. No discharge of Free Oil as determined by the visual sheen method on the surface of the receiving water. Monitoring shall be performed once per day, during conditions when observation of a visual sheen on the surface of the receiving water is possible in the vicinity of the discharge and when the facility is manned. The number of days that a visual sheen is observed must be recorded.

2. No discharge of Free Oil as determined by the static sheen test method once per day when discharging and the facility is manned. The number of days that a sheen is observed must be recorded.

3. No discharge of Floating Solids as determined by observations made once per day, during daylight in the vicinity of sanitary waste outfalls, following either the morning or midday meal and at the time during maximum estimated discharge.

4. No discharge of "garbage" including food wastes, incineration ash, and clinkers. Neither fish nor fish debris from cleaning stations nor graywater is considered garbage.

5. The following non-stormwater discharges may be authorized by this permit provided the non-stormwater component of the discharge is in compliance with Part III, Section D.9 of this permit: discharges from fire fighting activities; fire hydrant flushings; potable water sources including waterline flushings; drinking fountain water, irrigation drainage; lawn watering; routine external building washdown that does not use detergents or other compounds; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; compressor condensate; uncontaminated springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents.

6. Additives such as corrosion inhibitors, bactericides, and dyes may not be added to the test water without prior approval. Toxicity data for each additive must be submitted prior to approval.

7. Background concentration of Total Suspended Solids (TSS) will be allowed in the discharge if the effluent is being returned to the same waterbody. In these cases, the permit limitations will be 90 mg/L plus the concentration of TSS in the intake water. The TSS concentration of the intake water shall be reported on the DMR along with the concentration of TSS in the effluent.

8. Total Organic Carbon (TOC) shall be measured on discharges from pipes, pipelines, and/or tanks, which have previously been in service – i.e., those which are not new. Benzene, Total BTEX, and Lead shall be measured on discharges from pipes, pipelines and/or tanks that have been used for the storage or transportation of liquid or gaseous petroleum hydrocarbons. Accordingly, Flow, TSS, Oil & Grease, and pH are the only limitations and testing requirements for new pipes pipelines, and/or tanks.

9. BTEX shall be measured as the sum of benzene, ethyl benzene, toluene, and total xylene (including ortho-, meta-, and para-xylene) as quantified by EPA methods 602, 624, 1624, or most recently approved method.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

10. No discharge of priority pollutants except in trace amounts, unless authorized through a permitted outfall. Information on the specific chemical composition of any additives containing priority pollutants shall be recorded and shall be retained for a period of at least three years as required by Part III.C.3 of this permit. Note: If materials added downhole as well treatment, completion, or workover fluids contain no priority pollutants, the discharge is assumed not to contain priority pollutants except in trace amounts. Sampling and analysis of these parameters is not required. A list of priority pollutants is provided below.

NONCONVENTIONAL
Phenolics, Total Recoverable (4AAP)
Chlorine (Total Residual)
3-Chlorophenol
4-Chlorophenol
2, 3-Dichlorophenol
2, 5-Dichlorophenol
2, 6-Dichlorophenol
3, 4-Dichlorophenol
2, 4, 5-TP (Silvex)
2, 4-D

METALS AND CYANIDE
Antimony (Total)
Arsenic (Total)
Beryllium (Total)
Cadmium (Total)
Chromium (Total)
Chromium (3+)
Chromium (6+)
Copper (Total)
Lead (Total)
Mercury (Total)
Molybdenum (Total)
Nickel (Total) Freshwater
Nickel (Total) Marine
Selenium (Total)
Silver (Total)
Thallium (Total)
Zinc (Total)
Cyanide (Total)

DIOXIN
2, 3, 7, 8-TCDD

VOLATILE COMPOUNDS
Acrolein
Acrylonitrile
Benzene
Bromoform
Carbon Tetrachloride

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

VOLATILE COMPOUNDS continued
Chlorobenzene
Chlorodibromomethane
Chloroethane
2-Chloroethylvinylether
Chloroform
Dichlorobromomethane
1, 1-Dichloroethane
1, 2-Dichloroethane
1, 1-Dichloroethylene
1, 2-Dichloropropane
1, 3-Dichloropropylene
Ethylbenzene
Methyl Bromide [Bromomethane]
Methyl Chloride [Chloromethane]
Methylene Chloride
1, 1, 2, 2-Tetrachloroethane
Tetrachloroethylene
Toluene
1, 2-trans-Dichloroethylene
1, 1, 1-Trichloroethane
1, 1, 2-Trichloroethane
Trichloroethylene
Vinyl Chloride

ACID COMPOUNDS
2-Chlorophenol
2, 4-Dichlorophenol
2, 4-Dimethylphenol
4, 6-Dinitro-o-Cresol [2-Methyl-4, 6-Dinitrophenol]
2, 4-Dinitrophenol
2-Nitrophenol
4-Nitrophenol
p-Chloro-m-Cresol [4-Chloro-3-Methylphenol]
Pentachlorophenol
Phenol
2, 4, 6-Trichlorophenol

BASE/NEUTRAL COMPOUNDS
Acenaphthene
Acenaphthylene
Anthracene
Benzidine
Benzo (a) anthracene
Benzo (a) pyrene
3, 4-Benzofluoranthene
Benzo (ghi) perylene
Benzo (k) fluoranthene
Bis (2-chloroethoxy) Methane

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

BASE/NEUTRAL COMPOUNDS continued
Bis (2-chloroethyl) Ether
Bis (2-chloroisopropyl) Ether
Bis (2-ethylhexyl) Phthalate
4-Bromophenyl Phenyl Ether
Butylbenzyl Phthalate
2-Chloronapthalene
4-Chlorophenyl Phenyl Ether
Chrysene
Dibenzo (a, h) anthracene
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
3, 3'-Dichlorobenzidine
Diethyl Phthalate
Dimethyl Phthalate
Di-n-Butyl Phthalate
2, 4-Dinitrotoluene
2, 6-Dinitrotoluene
Di-n-octyl Phthalate
1, 2-Diphenylhydrazine
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1, 2, 3-cd) pyrene [2, 3-o-Phenylene Pyrene]
Isophorone
Naphthalene
Nitrobenzene
n-Nitrosodimethylamine
n-Nitrosodi-n-Propylamine
n-Nitrosodiphenylamine
Phenanthrene
Pyrene
1, 2, 4-Trichlorobenzene

PESTICIDES
Aldrin
Alpha-BHC
Beta-BHC
Gamma-BHC [Lindane]
Delta-BHC
Chlordane
4, 4'-DDT
4, 4'-DDE [p,p-DDX]
4, 4'-DDD [p, p-TDE]
Dieldrin
Alpha-Endosulfan

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

PESTICIDES continued
Beta-Endosulfan
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Heptachlor
Heptachlor Epoxide [BHC-Hexachlorocyclohexane]
PCB-1242
PCB-1254
PCB-1221
PCB-1232
PCB-1248
PCB-1260
PCB-1016
Toxaphene

11. Samples shall be collected prior to the addition of any seawater to the produced water waste stream.

12. DISCHARGE LIMITATIONS

7-day Chronic Toxicity. Produced water discharges must show no observed effect for the survival endpoint portion of the test on a 7-day average minimum and monthly average minimum basis as measured by the 7-day chronic toxicity test. The 7-day average minimum and monthly average minimum No Observable Effect Concentration (NOEC) must be equal to or greater than the critical dilution concentration specified in Tables 1A – 1E below. The critical dilution shall be determined using Table 1 of this permit and is based on the discharge rate most recently reported on the Discharge Monitoring Report (DMR), discharge pipe diameter, and water depth between the discharge pipe and the seafloor, or between the surface and the seafloor if the discharge is made above the water's surface. Facilities, which have not previously reported produced water flow on the DMR, shall use the most recent monthly average flow for determining the critical dilution from Table 1 below. The monthly average minimum NOEC value is defined as the arithmetic average of all 7-day average NOEC values determined during the month. See Part II, Section M of this permit.

Benzene, Lead, Phenol, and Thallium. The required limitations shall be calculated from the critical dilution obtained from Table 1, as follows:

Benzene†: Daily Max. = (220.8 μg/l / Critical Dilution) * 100
Monthly Avg. = (93 μg/l / Critical Dilution) * 100

Lead†: Daily Max. = (36.7 μg/l / Critical Dilution) * 100
Monthly Avg. = (15.5 μg/l / Critical Dilution) * 100

Phenol†: Daily Max. = (478 μg/l / Critical Dilution) * 100
Monthly Avg. = (201 μg/l / Critical Dilution) * 100

Thallium†: Daily Max. = (19.6 μg/l / Critical Dilution) * 100
Monthly Avg. = (8.3 μg/l / Critical Dilution) * 100

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

† If any individual analytical test result is less than the minimum quantification level listed below, a value of zero (0) may be used for that individual result for DMR calculations and reporting requirements:

Benzene - 10 µg/L
Lead (Total) - 5 µg/L
Total Phenol (4AAP Method) - 5 µg/L
Thallium (Total) - 10 µg/L

Methods to Increase Dilution for Compliance with Limits for Toxicity and Benzene, Lead, Thallium, and Phenol. Permittee wishing to increase mixing may use a horizontal diffuser, multiple port discharges, or add seawater as follows:

Permittee using a horizontal diffuser shall install the diffuser designed using CORMIX2 version 4.2 GT or newer. Both the numeric water quality-based limits and the critical dilution for chronic toxicity testing shall be based on the modeled dilution for the diffuser. The following input parameters shall be used in modeling the critical dilution:

Density Gradient = 0.182 sigma-t/m
Ambient seawater density at diffuser depth = 1017 kg/m^3
Produced water density = 1070 kg/m^3
Current speed = 10 cm/sec.

When the water at the discharge site is of sufficient depth that the plume does not impinge the bottom, the Brooks equation shall be applied to the CORMIX2 results as follows:

1. Calculate the near field dilution factor (S) at the end of the impingement region, collapsed plume width (H), and downstream distance where the impingement region ends (x) using the CORMIX2 model.

2. Using the input conditions cited above and calculated factors from Step 1, above; calculate the far field dilution factor, C_i/C, using the Brooks equation:

$$\frac{C_i}{C} = \left\{ erf\left[\left(\frac{1.5}{\left(1 + 8AH^{\frac{4}{3}} \frac{t}{H^2}\right)^3 - 1} \right)^{\frac{1}{2}} \right] \right\}^{-1}$$

where: C_i = concentration at end of impingement
C = concentration at edge of 100 m mixing zone
H = collapsed plume width, in meters
A = 4/3 power law dispersion parameter = 0.000453 m$^{2/3}$/sec
t = travel time from end of impingement to 100 m = (100m – x)/u

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

u = current speed
x = downstream distance where impingement region ends (from step 1, above)
erf = the error function

3. The total dilution at the 100 m mixing zone is defined as the product of the near-field dilution factor, S, found in Step 1 and the far-field dilution factor, C_i/C, calculated in Step 2.

Permittee shall state the calculated critical dilution corresponding to that diffuser on the annual Discharge Monitoring Report (DMR) with a certification that the diffuser is installed. The CORMIX2 model runs shall be retained by the permittee as part of its LPDES records.

Permittee using vertically aligned multiple discharge ports shall provide vertical separation between ports (See Table 2 - Minimum Vertical Port Separation Distance to Avoid Interference). When multiple discharge ports are installed, the depth difference between the discharge port closest to the sea floor and the sea floor shall be the depth difference used to determine the critical dilution from Table 1 of this permit. The critical dilution value shall be based on the port flow rate (total flow rate divided by the number of discharge ports) and based on the diameter of the discharge port (or smallest discharge port if they are of different styles).

When seawater is added to the produced water waste stream prior to discharge, the total produced water flow, including the added seawater, shall be used in determining the critical dilution. (See Tables 1A - 1E).

13. MONITORING FREQUENCY

Toxicity. The required frequency of toxicity testing shall be determined from using the critical dilutions obtained from Table 1 based on the water depth, discharge rate, and pipe diameter, as follows:

Toxicity Limit (Critical Dilution)	Monitoring Frequency‡
< 1%	1 per year
≥ 1 and < 2.25%	1 per quarter
≥ 2.25 %	1 per month

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Benzene, Lead, Phenol, and Thallium. The required monitoring frequency shall be determined from the limits calculated from Footnote 12 as follows:

Parameter	Monthly Avg. Limit (µg/l)	Monitoring Frequency‡
Thallium	> 1,044	1 per quarter
	≤ 1,044 and > 490	1 per month
	≤ 490	1 per 2 weeks
Benzene	> 12,600	1 per quarter
	≤ 12,600 and > 5,900	1 per month
	≤ 5,900	1 per 2 weeks
Lead	> 65,000	1 per quarter
	≤ 65,000 and > 30,600	1 per month
	≤ 30,600	1 per 2 weeks
Total Phenol	> 26,400	1 per quarter
	≤ 26,400 and > 12,400	1 per month
	≤ 12,400	1 per 2 weeks

Radioactivity. Produced water shall be monitored for Radium 226 and Radium 228. The required monitoring frequency shall be determined using the critical dilutions obtained from Table 1 based on the water depth, discharge rate, and pipe diameter as also required for the toxicity limits as follows:

Critical Dilution	Monitoring Frequency‡
< 1%	1 per year
≥ 1 and < 2.25%	1 per quarter
≥ 2.25 %	1 per month

‡ Samples of these parameters shall be collected after addition of any substances, including seawater that is added prior to discharge. Samples for monitoring produced water toxicity shall be representative of produced water discharges when scale inhibitors, corrosion inhibitors, biocides, paraffin inhibitors, well completion fluids, work over fluids, and/or well treatment fluids are used in operations.

For permittee required to monitor once per quarter or once per month as stated above for benzene, lead, total phenol or thallium, the monitoring frequency shall increase to once per two weeks for any of these parameters when the discharge has been found to exceed a limit for that parameter. For permittee required to monitor once per year or once per quarter as stated above for toxicity, the monitoring frequency shall increase to once per month when the discharge has been found to exceed limits for toxicity. When the permittee has monitored radioactivity for one continuous year the required monitoring frequency shall be reduced to once per year.

If permittee has been compliant for one full year (12 consecutive months) the required testing and monitoring frequencies shall be reduced for the following limits as follows: benzene, lead, total phenol or thallium, to once per quarter for the parameter(s) in compliance as long as the discharge remains in compliance and toxicity, to once per year and radioactivity, to once per year.

If the operator adds a diffuser, multiple discharge ports, or seawater to increase dilution to ensure compliance with the limits as described above, the operator may decrease the monitoring frequency to once per quarter for benzene, lead,

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

total phenol or thallium, and once per year for toxicity after they have taken the action to increase dilution and have demonstrated compliance with the limits for three consecutive months.

14. The concentration of treatment chemicals in the discharge shall not exceed the most stringent of the following three constraints: 1) the maximum concentrations and any other conditions specified in the EPA product registration labeling if the chemical is an EPA registered product; 2) the maximum manufacturer's recommended concentration; and 3) 500 mg/L.

15. Total Residual Chlorine limitation shall be a minimum of 1 mg/L and maintained as close to this concentration as possible. If chlorination is not chosen as a disinfection method, the discharge must meet a fecal coliform limitation of 43 colonies/100 mL weekly average. If chlorination is chosen as a disinfection method, see Part II, Section F.

16. The 48-hour minimum and monthly average minimum No Observervable Effect Concentration (NOEC) must be equal to or greater than the critical dilution concentration specified in Table 3 below. Critical dilution shall be determined and is based on the discharge rate, discharge pipe diameter and water depth between the discharge pipe and the bottom. The monthly average minimum NOEC value is defined as the arithmetic average of all 48-hour average NOEC values determined during month.

    The required frequency of testing for continuous discharges shall be determined as follows:

Discharge Rate	Toxicity Testing Frequency
0 - 499 bbl/day	1/year
500 - 4,599 bbl/day	1/quarter
4,600 bbl/day and above	1/month

    Intermittent or batch discharges shall be monitored once per discharge but are required to be monitored no more frequently than the corresponding frequencies shown above for continuous discharges.

    Samples shall be collected after addition of any added substances including seawater that is added prior to discharge and before the flow is split for multiple discharge ports. Samples also shall be representative of the discharge. Methods to increase dilution previously described for produced water in Footnote 12, also apply to seawater and freshwater discharges which have been chemically treated. If the permittee has been compliant with the toxicity limit for one full year (12 consecutive months) for a continuous discharge of chemically treated seawater or freshwater, the required testing frequency shall be reduced to once per year for that discharge.

17. Discharges are limited to those times that a visual sheen observation is possible unless the operator uses the static sheen method.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

TABLE 1: Produced Water Critical Dilutions

TABLE 1A: Critical Dilution (Percent Effluent) Depth Difference between the Discharge Pipe and the Sea Floor 2 Meters and Less

Discharge Rate (bbl/day)	Pipe Diameter (inches)					
	> 0" to < 5"	≥ 5" to < 7"	≥ 7" to < 9"	≥ 9" to < 11"	≥ 11" to < 15"	≥ 15"
≤ 500	0.26	0.26	0.26	0.11	0.1	0.09
501 to 1,000	0.66	0.66	0.66	0.66	0.66	0.66
1,001 to 2,000	1.44	1.44	1.44	1.44	1.44	1.44
2,001 to 3,000	2.63	2.2	2.2	2.2	2.2	2.2
3,001 to 4,000	4.2	3.0	3.0	3.0	3.0	3.0
4,001 to 5,000	5.6	3.6	3.6	3.6	3.6	3.6
5,001 to 7,500	7.6	6.4	5.3	5.3	5.3	5.3
7,501 to 10,000	8.8	9.4	6.8	6.8	6.8	6.8
10,001 to 15,000	10.5	12.25	10.8	9.1	9.1	9.1
15,001 to 20,000	11.5	13.6	14.8	10.9	10.9	10.1
20,001 to 35,000	13.0	15.6	17.4	18.7	15.4	14.4
35,001 to 50,000	13.7	16.5	18.5	20.0	21.1	16.6
50,001 to 75,000	16.7	17.3	19.5	21.0	22.25	19.0

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

TABLE 1B: Critical Dilution (Percent Effluent) Depth Difference between the Discharge Pipe and the Sea Floor Greater than 2 Meters to 4 Meters

Discharge Rate (bbl/day)	Pipe Diameter (inches)					
	> 0" to < 5"	≥ 5" to < 7"	≥ 7" to < 9"	≥ 9" to < 11"	≥ 11" to < 15"	≥ 15"
≤ 500	0.1	0.1	0.1	0.1	0.1	0.1
501 to 1,000	0.2	0.2	0.2	0.2	0.2	0.2
1,001 to 2,000	0.36	0.36	0.36	0.36	0.36	0.36
2,001 to 3,000	0.74	0.65	0.65	0.65	0.65	0.65
3,001 to 4,000	1.1	0.86	0.86	0.86	0.86	0.86
4,001 to 5,000	1.55	1.05	1.05	1.05	1.05	1.05
5,001 to 7,500	3.0	1.74	1.5	1.5	1.5	1.5
7,501 to 10,000	4.6	2.6	2.0	2.0	2.0	2.0
10,001 to 15,000	5.8	4.9	3.2	2.8	2.8	2.8
15,001 to 20,000	6.2	7.6	5.0	3.6	3.5	3.5
20,001 to 35,000	6.7	8.8	9.8	7.5	5.9	5.6
35,001 to 50,000	7.0	9.2	11.0	11.2	8.9	6.9
50,001 to 75,000	7.15	9.5	11.4	13.0	13.5	8.5

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

TABLE 1C: Critical Dilution (Percent Effluent) Depth Difference between the Discharge Pipe and the Sea Floor Greater than 4 Meters to 6 Meters

Discharge Rate (bbl/day)	Pipe Diameter (inches)					
	> 0" to < 5"	≥ 5" to < 7"	≥ 7" to < 9"	≥ 9" to < 11"	≥ 11" to < 15"	≥ 15"
≤ 500	0.04	0.04	0.04	0.04	0.04	0.04
501 to 1,000	0.06	0.06	0.06	0.06	0.06	0.06
1,001 to 2,000	0.1	0.1	0.1	0.1	0.1	0.1
2,001 to 3,000	0.15	0.14	0.14	0.14	0.14	0.14
3,001 to 4,000	0.21	0.18	0.18	0.18	0.18	0.18
4,001 to 5,000	0.27	0.22	0.22	0.22	0.22	0.22
5,001 to 7,500	0.6	0.43	0.41	0.41	0.41	0.41
7,501 to 10,000	0.9	0.62	0.53	0.53	0.53	0.55
10,001 to 15,000	1.8	1.1	0.83	0.76	0.76	0.76
15,001 to 20,000	2.8	1.6	1.2	1.0	1.0	1.0
20,001 to 35,000	3.6	3.7	2.6	2.0	1.7	1.6
35,001 to 50,000	3.7	5.0	4.3	3.3	2.6	2.2
50,000 to 75,000	3.7	5.1	6.4	5.4	4.4	3.1

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

TABLE 1D: Critical Dilution (Percent Effluent) Depth Difference between the Discharge Pipe and the Sea Floor Greater than 6 Meters to 9 Meters

Discharge Rate (bbl/day)	Pipe Diameter (inches)					
	> 0" to < 5"	≥ 5" to < 7"	≥ 7" to < 9"	≥ 9" to < 11"	≥ 11" to < 15"	≥ 15"
≤ 500	0.04	0.04	0.04	0.04	0.04	0.04
501 to 1,000	0.06	0.06	0.06	0.06	0.06	0.06
1,001 to 2,000	0.1	0.1	0.1	0.1	0.1	0.1
2,001 to 3,000	0.15	0.14	0.14	0.14	0.14	0.14
3,001 to 4,000	0.21	0.18	0.18	0.18	0.18	0.18
4,001 to 5,000	0.27	0.22	0.22	0.22	0.22	0.22
5,001 to 7,500	0.6	0.43	0.41	0.41	0.41	0.41
7,501 to 10,000	0.9	0.62	0.53	0.53	0.53	0.55
10,001 to 15,000	1.8	1.1	0.83	0.76	0.76	0.76
15,001 to 20,000	2.8	1.6	1.2	1.0	1.0	1.0
20,001 to 35,000	3.6	3.7	2.6	2.0	1.7	1.6
35,001 to 50,000	3.7	5.0	4.3	3.3	2.6	2.2
50,000 to 75,000	3.7	5.1	6.4	5.4	4.4	3.1

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

TABLE 1E: Critical Dilution (Percent Effluent) Depth Difference between the Discharge Pipe and the Sea Floor Greater than 9 Meters

Discharge Rate (bbl/day)	Pipe Diameter (inches)					
	> 0" to < 5"	≥ 5" to < 7"	≥ 7" to < 9"	≥ 9" to < 11"	≥ 11" to < 15"	≥ 15"
≤ 500	0.04	0.04	0.04	0.04	0.04	0.04
501 to 1,000	0.06	0.06	0.06	0.06	0.06	0.06
1,001 to 2,000	0.09	0.09	0.09	0.09	0.09	0.09
2,001 to 3,000	0.11	0.1	0.1	0.1	0.1	0.1
3,001 to 4,000	0.13	0.12	0.12	0.12	0.12	0.12
4,001 to 5,000	0.15	0.13	0.13	0.13	0.13	0.13
5,001 to 7,500	0.22	0.18	0.18	0.18	0.18	0.18
7,501 to 10,000	0.42	0.32	0.3	0.3	0.3	0.3
10,001 to 15,000	0.8	0.53	0.44	0.42	0.42	0.42
15,001 to 20,000	1.3	0.8	0.62	0.54	0.54	0.54
20,001 to 35,000	2.7	1.8	1.3	1.0	0.9	0.9
35,001 to 50,000	2.7	3.0	2.2	1.7	1.4	1.2
50,001 to 75,000	2.8	3.9	3.7	3.0	2.4	1.7

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

TABLE 2: Minimum Vertical Port Separation Distance to Avoid Interference

Port Flow Rate (bbl/day)	Minimum Separation Distance (m)
0 - 500	2.2
501 - 1000	2.7
1001 - 2000	4.7
2001 - 5000	4.8
5001 and Greater	6.6

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

TABLE 3: Critical Dilution (Percent Effluent) for Toxicity Limitations for Seawater and Freshwater to which Treatment Chemicals Have Been Added

Depth Difference (meters)	Discharge Rate (bbl/day)	Pipe Diameter (inches)			
		>0" to 2"	>2" to 4"	>4" to 6"	>6
0 to 3	0 to 1000	11.4	5.1	5.1	6.3
	1001 to 10, 000	38	53	62	67
	Greater than 10,000	49	66	74	77
>3 to 5	0 to 1000	4.0	4.8	6.6	6.2
	1001 to 10, 000	16.1	25	30	23
	Greater than 10,000	23.6	33.3	39	49
>5 to 7	0 to 1000	4.0	4.8	5.6	6.2
	1001 to 10, 000	12.8	21	18.1	18.8
	Greater than 10,000	16.7	25.4	31.2	34.4
Greater than 7	0 to 1000	4.0	4.8	5.6	6.2
	1001 to 10, 000	9.8	16.3	18.1	18.8
	Greater than 10,000	12.4	18.8	25.2	26.3

OTHER REQUIREMENTS

In addition to the standard conditions required in all permits and listed in Part III, the Office has established the following additional requirements in accordance with the Louisiana Water Quality Regulations.

A. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations or additional restrictions, if necessary, to maintain the water quality integrity and the designated uses of the receiving water bodies.

B. This permit does not in any way authorize the permittee to discharge a pollutant not listed or quantified in the application or limited or monitored for in the permit.

C. Authorization to discharge pursuant to the conditions of this permit does not relieve the permittee of any liability for damages to state waters or private property. For discharges to private land, this permit does not relieve the permittee from obtaining proper approval from the landowner for appropriate easements and rights of way.

D. For definitions of monitoring and sampling terminology see Part III, Section F.

E. 24-HOUR ORAL REPORTING: DAILY MAXIMUM LIMITATION VIOLATIONS

Under the provisions of Part III.D.6.e.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported orally to the Office of Environmental Compliance within 24 hours from the time the permittee became aware of the violation followed by a written report in five days.

Pollutant(s):

Benzene
Thallium
Lead
Total Phenol

F. SANITARY DISCHARGE

Future water quality studies may indicate potential toxicity from the presence of residual chlorine in the treatment facility's effluent. Therefore, the permittee is hereby advised that a future Total Residual Chlorine Limit may be required if chlorine is used as a method of disinfection. In many cases, this becomes a NO MEASURABLE Total Residual Chlorine Limit. If such a limit were imposed, the permittee would be required to provide for dechlorination of the effluent prior to discharge. Please be aware, concentrations of Total Residual Chlorine remains in the effluent after dechlorination in order to prevent toxicity in the receiving stream.

The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain water quality integrity and the designated uses of the receiving water bodies based upon water quality studies. These studies may indicate the need for more advanced wastewater treatment. Studies of similar discharges and receiving water bodies have resulted in monthly average effluent limitations of 5 mg/L $CBOD_5$ and 2 mg/L NH_3-N. Therefore, prior to upgrading or expanding any permitted sewage treatment method at the facility, the

OTHER REQUIREMENTS (continued)

permittee should contact the Department to determine the status of the work being done to establish future limitations and additional permit conditions.

G. 40 CFR PART 136 (See LAC 33:IX.4901) ANALYTICAL REQUIREMENTS

Unless otherwise specified in this permit, monitoring shall be conducted according to analytical, apparatus and materials, sample collection, preservation, handling, etc., procedures listed at 40 CFR Part 136, and in particular, Appendices A, B, and C (See LAC 33:IX.4901).

H. FLOW MEASUREMENT "ESTIMATE" SAMPLE TYPE

If the flow measurement sample type in Part I is specified as "estimate", flow measurements shall not be subject to the accuracy provisions established at Part III.C.6 of this permit. The daily flow value may be estimated using best engineering judgment.

I. There shall be no unpermitted discharge of waste oil, produced brine, drilling fluids, drill cuttings or other wastes nor any uncontrolled discharges of wastewater, including stormwater runoff, from exploration and production sites. Control of discharges shall be obtained through use of the following measures:

1. All workover and drilling barges, and production facilities shall be equipped with adequate pollution containment devices to prevent unpermitted discharges of waste to the waters of the state.

2. All pumps and loading areas in open waters or wetlands where the building of dikes is impossible or impracticable shall be placed on impervious decks provided with a system of curbs, gutters and sumps capable of retaining spills of oil and other materials.

3. All tanks or vessels containing hydrocarbons or other chemicals that cannot be surrounded by an impervious dike, such as those in wetlands or over open waters, shall be placed on impervious decks provided with curbs, gutters, and sumps capable of preventing discharge of free oil to waters of the State.

4. All drains from diked areas shall be equipped with valves, which shall be kept in the closed condition except during periods of supervised discharge.

5. All spilled oil and other spilled waste shall be immediately cleaned up and disposed of according to all applicable regulations. Failure to initiate cleanup operations upon becoming aware of an unpermitted discharge or spill to the waters of the state or uncontained areas that drain to said waters shall be a violation of this permit. Each additional day that cleanup operations are delayed shall be a separate violation. In the event that immediate cleanup is not considered to be an appropriate remedial measure, the responsible party shall notify the Office of Environmental Compliance/Surveillance Division of the alternative remedial plan and shall promptly implement said plan upon approval by the Office of Environmental Compliance/Surveillance Division. Submission of an alternate plan shall in no way relieve the responsible party if its duty to contain and mitigate the effects of the spill pending approval by the Office of Environmental Compliance/Surveillance Division.

OTHER REQUIREMENTS (continued)

6. The discharge of any oilfield waste into manmade or natural drainage or directly into state waters is prohibited except as provided under the terms and conditions of this permit.

7. Use of detergents, emulsifiers, or dispersants to clean up spilled oil is prohibited except where necessary to comply with State or Federal safety regulations (i.e. requirement for a non-slippery work surface). In all such cases, initial cleanup shall be done by physical removal and chemical usage shall be minimized.

J. STORMWATER DISCHARGES

1. This section applies to all stormwater discharges from the facility, either through permitted outfalls or through outfalls, which are not listed in the permit or as sheet flow. The purpose of the pollution prevention plan is to identify potential sources of pollution that would reasonably be expected to affect the quality of stormwater and identify the practices that will be used to prevent or reduce the pollutants in stormwater discharges.

2. Any runoff leaving the developed areas of the facility, other than the permitted outfall(s), exceeding 50 mg/L TOC, 15 mg/L Oil and Grease, or having a pH less than 6.0 or greater than 9.0 standard units shall be a violation of this permit. Any discharge in excess of these limitations, which is attributable to offsite contamination shall not be considered a violation of this permit. A visual inspection of the facility shall be conducted and a report made annually as described in Paragraph 4 below.

3. The permittee shall prepare and implement a Storm Water Pollution Prevention Plan (SWP3) on or before the date 60 calendar days after the first knowledge of a discharge of a reportable quantity of oil or a hazardous substance for which notification is required pursuant to either 40 CFR 110.6 or 40 CFR 302.6. The terms and conditions of the SWP3 shall be an enforceable Part of the permit. If the permittee maintains other plans that contain duplicative information, those plans could be incorporated by reference into the SWP3. Examples of these type plans include, but are not limited to: Spill Prevention Control and Countermeasure Plan (SPCC), Best Management Plan (BMP), Response Plans, etc. EPA document 832-R-92-006 (Storm Water Management for Industrial Activities) may be used as a guidance and may be obtained by writing to the Water Resource Center (RC_4100), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue NW, Washington D.C. 20460 or by calling (202) 566-1729 or via the Wetlands Helpline (800) 832-7828.

4. The following conditions are applicable to all facilities and shall be included in the SWP3 for the facility.

   a. The permittee shall conduct an annual inspection of the facility site to identify areas contributing to the storm water discharge from developed areas of the facility and evaluate whether measures to reduce pollutant loadings identified in the SWP3 are adequate and have been properly implemented in accordance with the terms of the permit or whether additional control measures are needed.

OTHER REQUIREMENTS (continued)

b. The permittee shall develop a site map, which includes all areas where stormwater may contact potential pollutants or substances, which can cause pollution. Any locations where reportable quantities leaks or spills have previously occurred are to be documented in the SWP3. The SWP3 shall contain a description of the potential pollutant sources, including, the type and quantity of material present and what action has been taken to assure stormwater precipitation will not directly contact the substances and result in contaminated runoff.

c. Where experience indicates a reasonable potential for equipment failure (e.g. a tank overflow or leakage), natural condition of (e.g. precipitation), or other circumstances which result in significant amounts of pollutants reaching surface waters, the SWP3 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.

d. The permittee shall maintain for a period of three years a record summarizing the results of the inspection and a certification that the facility is in compliance with the SWP3 and the permit, and identifying any incidents of noncompliance. The summary report should contain, at a minimum, the date and time of inspection, name of inspector(s), conditions found, and changes to be made to the SWP3.

e. The summary report and the following certification shall be signed in accordance with LAC 33:IX.2503. The summary report is to be attached to the SWP3 and provided to the Department upon request.

"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."

Signatory requirements for the certification may be found in Part III, Section D.10 of this permit.

f. The permittee shall make available to the Department, upon request, a copy of the SWP3 and any supporting documentation.

5. The following shall be included in the SWP3, if applicable.

a. The permittee shall utilize all reasonable methods to minimize any adverse impact on the drainage system including but not limited to:

i. maintaining adequate roads and driveway surfaces;
ii. removing debris and accumulated solids from the drainage system; and

OTHER REQUIREMENTS (continued)

iii. cleaning up immediately any spill by sweeping, absorbent pads, or other appropriate methods.

b. All spilled product and other spilled wastes shall be immediately cleaned up and disposed of according to all applicable regulations, Spill Prevention and Control (SPC) plans or Spill Prevention Control and Countermeasures (SPCC) plans. Use of detergents, emulsifiers, or dispersants to clean up spilled product is prohibited except where necessary to comply with State or Federal safety regulations (i.e., requirement for non-slippery work surface) except where the cleanup practice does not result in a discharge and does not leave residues exposed to future storm events. In all such cases, initial cleanup shall be done by physical removal and chemical usage shall be minimized.

c. All equipment, parts, dumpsters, trash bins, petroleum products, chemical solvents, detergents, or other materials exposed to stormwater shall be maintained in a manner which prevents contamination of stormwater by pollutants.

d. All waste fuel, lubricants, coolants, solvents, or other fluids used in the repair or maintenance of vehicles or equipment shall be recycled or contained for proper disposal. Spills of these materials are to be cleaned up by dry means whenever possible.

e. All storage tank installations (with a capacity greater than 660 gallons for an individual container, or 1,320 gallons for two or more containers in aggregate within a common storage area) shall be constructed so that a secondary means of containment is provided for the entire contents of the largest tank plus sufficient freeboard to allow for precipitation. Diked areas should be sufficiently impervious to contain spills.

f. All diked areas surrounding storage tanks or stormwater collection basins shall be free of residual oil or other contaminants so as to prevent the accidental discharge of these materials in the event of flooding, dike failure, or improper draining of the diked area. All drains from diked areas shall be equipped with valves, which shall be kept in the closed condition except during periods of supervised discharge.

g. All check valves, tanks, drains, or other potential sources of pollutant releases shall be inspected and maintained on a regular basis to assure their proper operation and to prevent the discharge of pollutants.

h. The permittee shall assure compliance with all applicable regulations promulgated under the Louisiana Solid Waste and Resource Recovery Law and the Hazardous Waste Management Law (L.R.S. 30:2151, etc.). Management practices required under above regulations shall be referenced in the SWP3.

OTHER REQUIREMENTS (continued)

i. The permittee shall amend the SWP3 whenever there is a change in the facility or change in the operation of the facility, which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.

j. If the SWP3 proves to be ineffective in achieving the general objectives of preventing the release of significant amounts of pollutants to water of the state, then the specific objectives and requirements of the SWP3 shall be subject to modification to incorporate revised SWP3 requirements.

6. Facility Specific SWP3 Conditions:

None

K. The permittee shall achieve compliance with the effluent limitations and monitoring requirements specified for discharges in accordance with the following schedule:

Effective date of the permit

L. PROPOSED DISCHARGE NOTIFICATION

Prior approval shall be obtained from this Office for any new proposed discharges at the site.

If the permittee is granted coverage under a general permit for the discharge types and locations covered by this individual permit, the effluent characteristics, discharge limitations, monitoring requirements, and DMR reporting requirements shall be followed for the general permit, not the individual permit.

M. PRODUCED WATER TOXICITY TESTING REQUIREMENTS (7-DAY CHRONIC NOEC MARINE LIMITS)

The approved test methods for permit compliance are identified in 40 CFR Part 136 and published at 60 FR 53528.

1. The permittee shall utilize the Mysidopsis bahia (Mysid shrimp) chronic static renewal 7-day survival and growth test (Method 1007.0). A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

2. The permittee shall utilize the Menidia beryllina (Inland Silverside minnow) chronic static renewal 7-day larval survival and growth test (Method 1006.0). A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

3. When the testing frequency is less than monthly and the effluent fails the survival endpoint at the low-flow effluent concentration (critical dilution), the permittee shall be considered in violation of this permit limit and the frequency for the affected species will increase to monthly until such time compliance with the Lethal No Observed Effluent Concentration (NOEC) effluent limitation is demonstrated for a period of three consecutive months, at which time the permittee

OTHER REQUIREMENTS (continued)

may return to the testing frequency stated in Part I of this permit. During the period the permittee is out of compliance, test results shall be reported on the DMR for that reporting period.

4. This permit may be reopened to require chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

5. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms", EPA-821-R-02-014, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of Part III.C of this permit. For any test which fails, is considered invalid, or which is terminated early for any reason, the full report must be submitted for agency review. The permittee shall submit the first full report to the Office of Environmental Compliance at the address listed in Part II.Q of this permit.

6. In accordance with Part III.D.10 of this permit, the permittee shall report on the DMR for the reporting period the lowest Whole Effluent Lethality values determined for either species for the 30-Day Average Minimum and 7-Day Minimum under Parameter No. 22414, and the permittee shall report the results of the valid toxicity test as follows:

   a. MENIDIA BERYLLINA (INLAND SILVERSIDE MINNOW)

      i. If the Inland Silverside Minnow NOEC for survival is less than the critical effluent dilution, enter a "1"; otherwise, enter a "0". Parameter No. TLP6B on the DMR.

      ii. Report the Inland Silverside Minnow NOEC value for survival, Parameter No. TOP6B on the DMR.

      iii. Report the Inland Silverside Minnow NOEC value for growth, Parameter NO. TPP6B on the DMR.

      iv. If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP6B.

      v. Report the % coefficient of variation (larger of critical dilution and control), Parameter NO. TQP6B on the DMR.

   b. MYSIDOPSIS BAHIA (MYSID SHRIMP)

      i. If the Mysid shrimp NOEC for survival is less than the critical effluent dilution, enter a "1"; otherwise, enter a "0". Parameter No. TLP6E on the DMR.

OTHER REQUIREMENTS (continued)

ii. Report the Mysid shrimp NOEC value for survival, Parameter No. TOP3E on the DMR.

iii. Report the Mysid shrimp NOEC value for growth, Parameter No. TPP3E on the DMR.

iv. If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP3E.

v. Report the % coefficient of variation (larger of critical dilution and control), Parameter No. TQP3E on the DMR.

N. CHEMICALLY TREATED SEAWATER AND FRESHWATER TOXICITY TESTING REQUIREMENTS (48-HOUR ACUTE NOEC MARINE LIMITS)

The approved test methods for permit compliance are identified in 40 CFR Part 136 and published at 60 FR 53528.

1. The permittee shall utilize the Mysidopsis bahia (Mysid shrimp) acute static renewal 48-hour definitive toxicity test using EPA-821-R-02-012. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

2. Mendia beryllina (Inland Silverside Minnow) acute static renewal 48-hour definitive toxicity test using EPA-821-R-02-012. A minimum of five (5) replicates with ten (10) organisms per replicate must be used in the control and in each effluent dilution of this test.

3. When the testing frequency is less than monthly and the effluent fails the survival endpoint at the low-flow effluent concentration (critical dilution), the permittee shall be considered in violation of this permit limit and the frequency for the affected species will increase to monthly until such time compliance with the Lethal No Observed Effluent Concentration (NOEC) effluent limitation is demonstrated for a period of three consecutive months, at which time the permittee may return to the testing frequency stated in Part I of this permit. During the period the permittee is out of compliance, test results shall be reported on the DMR for that reporting period.

4. This permit may be reopened to require chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

5. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of " Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms", EPA-821-R-02-012, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of Part III.C of this permit. For any test which fails, is considered invalid, or which is terminated early for any reason, the full report must be

OTHER REQUIREMENTS (continued)

submitted for agency review. The permittee shall submit the first full report to the Office of Environmental Compliance at the address listed in Part II.Q. of this permit.

6. In accordance with Part III.D.10 of this permit, the permittee shall report on the DMR for the reporting period the lowest Whole Effluent Lethality values determined for either species for the 30-Day Average Minimum and 48-Hour Minimum under Parameter No. 22414, and the permittee shall report the results of the valid toxicity test as follows:

   a. MENIDIA BERYLLINA (INLAND SILVERSIDE MINNOW)

      i. If the Inland Silverside Minnow NOEC for survival is less than the critical effluent dilution, enter a "1"; otherwise, enter a "0". Parameter No. TEM6B on the DMR.

      ii. Report the Inland Silverside Minnow NOEC value for survival, Parameter No. TOM6B on the DMR.

      iii. Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQM6B

   b. MYSIDOPSIS BAHIA (MYSID SHRIMP)

      i. If the Mysid shrimp NOEC for survival is less than the critical effluent dilution, enter a "1"; otherwise, enter a "0". Parameter No. TEM3E on the DMR.

      ii. Report the Mysid shrimp NOEC value for survival, Parameter No. TOM3E on the DMR.

      iii. Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQM3E.

O. CHANGES IN DISCHARGES OF TOXIC SUBSTANCES

The permittee shall notify the Administrative Authority as soon as it knows or has 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 listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   a. One hundred micrograms per liter (100 μg/L);

   b. Two hundred micrograms per liter (200 μg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L) for 2, 4-dinitro-phenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony; or

OTHER REQUIREMENTS (continued)

c. The level established by the Administrative Authority

2. That any activity has occurred or will occur which would result in the 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 (500 μg/L);

   b. One milligram per liter (1 mg/L) for antimony; or

   c. The level established by the Administrative Authority

P. RADIONUCLIDE TEST

The approved test methods for monitoring water for radionuclides are:

Radium 226: Method Number 7500-Ra C, Standard Methods for the Examination of Water and Wastewater, most current edition, APHA, AWWA, and WPCF.

Radium 228: Method Number 7500-Ra D, Standard Methods for the Examination of Water and Wastewater, most current edition, APHA, AWWA, and WPCF.

Q. PERMIT REOPENER CLAUSE

In accordance with LAC 33:IX.2383, this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

2. Controls any pollutant not limited in the permit; or

3. Require reassessment due to change in 303(d) status of waterbody; or

4. Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body.

R. DISCHARGE MONITORING REPORTS

Monitoring results must be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1 or an approved substitute). All monitoring reports must be retained for a period of at least three (3) years from the date of the sample measurement. The permittee shall make available to this Department, upon request, copies of all monitoring data required by this permit.

If there is a no discharge event at any of the monitored outfall(s) during the reporting

OTHER REQUIREMENTS (continued)

period, enter "No Discharge" in the upper right corner of the Discharge Monitoring Report.

The permittee must complete all empty blanks in the DMR for each outfall unless there has been absolutely no discharge from a particular outfall (discharge type) for the entire quarterly monitoring period being submitted. In these cases, LDEQ's Enforcement Division of the Office of Environmental Compliance will accept a listing of these outfalls with no discharges, in lieu of submitting actual DMRs for these particular outfalls. This list must be included in the cover letter of the DMR submittal and must indicate the Facility Name, LPDES Permit Number, AI Number, and the outfall/discharge number and type of discharge. This list must also include the certification statement presented in Part III.D.10.d of this permit and an original signature of the designated responsible official.

Discharge Monitoring Report (DMR) forms shall be prepared and submitted for each outfall per the instructions and submission schedules below:

1. For sampling frequencies of once per month or more frequent, one DMR form per month (summarize monitoring results monthly) must be prepared and submitted quarterly.

2. For quarterly or once per 3 months sampling frequencies, one DMR form per quarter must be prepared and submitted quarterly.

3. For semi-annual or once per 6 months monitoring frequencies, one DMR form per six-month period must be prepared and submitted semi-annually.

4. For annual or once per year monitoring frequencies, one DMR form per year must be submitted annually.

   For outfalls with mixed sampling frequencies, a separate DMR form shall be submitted for each sampling frequency in accordance with the instructions above. (For example: an outfall with monthly and yearly monitoring frequencies would require one DMR form for parameters monitored once per month and one DMR form for parameters monitored once per year. Total DMR forms=2).

Quarterly Submission Schedule

Monitoring Period	DMR Due Date
January, February, March	April 28th
April, May, June	July 28th
July, August, September	October 28th
October, November, December	January 28th

OTHER REQUIREMENTS (continued)

Semiannual Submission Schedule

Monitoring Period	DMR Due Date
January - June	July 28th
July - December	January 28th

Annual Submission Schedule

Monitoring Period	DMR Due Date
January-December	January 28th

In accordance with LAC 33:IX.2503.B, DMRs must be signed and certified by an authorized person. Discharge Monitoring Reports and all other reports required by this permit shall be submitted to the Permit Compliance Unit (originals), and the appropriate regional office (copies) at the following addresses:

Department of Environmental Quality
Office of Environmental Compliance
Enforcement Division
ATTN: Permit Compliance Unit
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312

Southeast Regional Office
Office of Environmental Compliance/Surveillance Division
201 Evans Road, Building 4, Suite 400
New Orleans, Louisiana 70123-5230

OTHER REQUIREMENTS (continued)

S. DEFINITIONS

1. *Activity*: any conduct, operation or process which causes or may cause the discharge of pollutants into the waters of the state.

2. *Administrative Authority*: the secretary of the Department of Environmental Quality or his designee or the appropriate assistant secretary or his designee.

3. *Ballast Water*: uncontaminated surface water used to maintain proper draft or to stabilize drilling or workover vessels.

4. *Batch or Bulk Discharge*: any discharge of a discrete volume or mass of effluent from a pit, tank, or similar container that occurs on a one time or infrequent or irregular basis

5. *Batch or bulk treatment*: means any treatment of a discrete volume or mass of effluent from a pit, tank, or similar container prior to discharge.

6. *bbl/day*: barrels per day

7. *Best Management Practices ("BMPs")*: means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

8. *Bilge Water*: water that accumulates in the bilge area of drilling or workover vessels.

9. *Biochemical Oxygen Demand (BOD)*: means the amount of oxygen required by bacteria during the decay of organic and nitrogenous materials.

10. *Blowout Preventer Control Fluid*: fluid used to actuate the hydraulic equipment on the blowout preventer.

11. *BOD_5*: the five day biochemical oxygen demand.

12. *Boiler Blowdown*: discharge from boilers necessary to minimize solids build-up in the boilers, including vents from boilers and other heating systems.

13. *Cement*: Portland cement, either dry or in slurry form, including additives. Additives include such materials as accelerators (e.g., calcium chloride), retarders (e.g., lignosulfonates), weighting materials (e.g., barium sulfate), extenders (e.g., bentonite), and lost circulation materials (e.g., walnut shells).

14. *Clinkers*: small lumps of melted plastic.

15. *COD*: chemical oxygen demand.

16. *Commingled Discharges*: waste streams that are mixed prior to final discharge

OTHER REQUIREMENTS (continued)

and can not be sampled separately as internal outfalls.

17. *Completion Fluids*: salt solutions, weighted brines, polymers or various additives used to prevent damage to the well bore during operations which prepare the drilled well for hydrocarbon production. These fluids move into the formation and return to the surface as a slug with the produced water. Drilling muds remaining in the well bore during logging, casing, and cementing operations or during temporary abandonment of the well are not considered completion fluids and are regulated by drilling fluids requirements.

18. *Deck Drainage*: all waste resulting from platform washings, deck washings, spills, rainwater, and runoff from curbs, gutters, and drains, including drip pans and wash areas.

19. *Depth Difference*: distance in water depth between the discharge pipe and the seafloor.

20. *Desalinization unit discharge*: wastewater associated with the process of creating fresh water from salt water.

21. *Development facility*: any fixed or mobile structure subject to this permit that is engaged in the drilling of productive wells.

22. *Diatomaceous Earth Filter Media*: Filter media used to filter seawater or other authorized completion fluids and subsequently washed from the filter.

23. *Domestic Waste*: materials discharged from sinks, showers, laundries, safety showers, eyewash stations, handwash stations, fish cleaning stations, and galleys.

24. *Drill Cuttings*: particles generated by drilling into subsurface geological formations.

25. *Drilling Fluids*: any fluid sent down the hole, including drilling muds and any specialty products, from the time a well is begun until final cessation of drilling in that hole.

26. *Drilling Mud*: a heavy suspension used in drilling a well, introduced down the drill pipe and through the drill bit.

27. *Effluent Limitation*: any applicable state or federal quality or quantity limitation that imposes any restriction or prohibition on quantities, discharge rates, and concentrations of pollutants discharged into the waters of the State.

28. *Excess Cement Slurry*: the excess cement including additives and wastes from equipment washdown after a cementing operation.

29. *Exploratory facility*: any fixed or mobile structure subject to this permit that is engaged in the drilling of wells to determine the nature of potential hydrocarbon reservoirs.

30. *Facility*: means a pollution source, or any public or private property or site and all contiguous land and structures, other appurtenances and improvements, where

OTHER REQUIREMENTS (continued)

any activity is conducted which discharges or may result in the discharge of pollutants into waters of the State.

31. *Fecal Coliform*: means a gram negative, non-spore forming, rod-shaped bacteria found in the intestinal tract of warm-blooded animals.

32. *Formation Test Fluids*: the discharge that would occur if hydrocarbons are located during exploratory drilling and tested for formation pressure and content.

33. *Free Oil*: oil that causes a sheen when discharges are released or when a static sheen test is used.

34. *Garbage*: all kinds of victual, domestic, and operational waste, excluding fresh fish and parts thereof, generated during the normal operation of territorial oil and gas facility and liable to be disposed of continuously or periodically, except dishwater, graywater, and those substances that are defined or listed in other Annexes to MARPOL 73/78.

35. *Graywater*: drainage from dishwater, shower, laundry, bath, and wash basin drains and does not include drainage from toilets, urinals, hospitals, and drainage from cargo areas.

36. *Inverse emulsion drilling fluids*: means an oil-based drilling fluid that also contains a large amount of water.

37. *Muds, Cuttings, and Cement at the Cement Floor*: discharges which occur at the sea floor prior to installation of the marine riser and during marine riser disconnect and well abandonment and plugging operations.

38. *Non-contact Cooling Water*: means that water used for the purpose of heat removal and which does not come in contact with any raw materials, intermediate or finished products, or any spilled materials in conveyances.

39. *Office*: means the Office of Environmental Services within the Department of Environmental Quality.

40. *Pollutant*: any substance introduced into the waters of the State by any means that would tend to degrade the chemical, physical, biological, or radiological integrity of the environment.

41. *Pollution Source*: the immediate site or location of a discharge or potential discharge, including such surrounding property as is necessary to secure or quarantine the area from access by the general public.

42. *Priority Pollutants*: are those chemicals or elements pursuant to section 307 of the Clean Water Act, and 40 CFR 401.15. See Appendix A.

43. *Produced Sand*: sand and other solids removed from produced water, oil, or gas.

44. *Produced Water*: liquid and suspended particulate waste material generated by the processing of fluids brought to the surface in conjunction with recovery of oil

OTHER REQUIREMENTS (continued)

or natural gas from underground geological formations or with underground storage of hydrocarbons.

45. *Production Facility*: any fixed or mobile structure that is either engaged in well completion or used for active recovery of hydrocarbons from producing formations. It includes facilities that are engaged in hydrocarbon fluids separation even if located separately from wellheads.

46. *Reportable Quantity (RQ) Release*: as defined at 40 CFR Part 110, "the amount of oil that violates applicable water quality standards or causes a film or sheen upon or a discoloration of the surface of the water or adjoining shorelines or causes a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines."

47. *Sanitary Wastewater*: the human body waste discharged from toilets and urinals located within facilities subject to this permit.

48. *Seepage*: as used in the permits means the physical, slow movement of wastewater through a porous material in sufficient quantity to produce visible unbroken surface flow from a seepage area to waters of the State.

49. *Source Water and Sand*: water, including the entrained solids, from non-hydrocarbon bearing formations used for the purpose of pressure maintenance or secondary recovery.

50. *Storm Water Runoff*: aqueous surface runoff including any soluble or suspended material mobilized by naturally occurring precipitation events.

51. *Storm Water Discharge Associated with Industrial Activity*: defined at LAC 33:IX. 2511.B.14.

52. *Static Sheen*: defined in the static sheen test in Appendix 1 to 40 CFR 435, Subpart A.

53. *Territorial Seas*: the belt of the seas measured from the line of ordinary low water along that portion of the coast in direct contact with the open sea and the line marking the seaward limit of inland waters, and extending seaward a distance of three miles (as defined at 33 U.S.C. 1362.8).

54. *Total Suspended Solids (TSS)*: the amount of solid material suspended in water commonly expressed as a concentration in terms of mg/L.

55. *Treated wastewater from dewatered drilling fluids and cuttings*: means wastewater from dewatering activities (including but not limited to reserve or other tanks or pits which have been flocculated or otherwise chemically or mechanically treated to meet specific discharge conditions) and any waste commingled with this water.

56. *Unauthorized Discharge*: a continuous, intermittent or one-time discharge, whether intentional, anticipated, or unanticipated, from any source, permitted or unpermitted, which is in contravention of any provision of the Act or of any

OTHER REQUIREMENTS (continued)

permit terms and conditions, or of any applicable regulation, compliance schedule, variance or exception of the administrative authority.

57. *Uncontaminated ballast/bilge water*: seawater added or removed to maintain proper draft of a vessel.

58. *Uncontaminated Freshwater*: means freshwater which is returned to the receiving stream without the addition of any chemicals; included are (1) discharges of excess freshwater that permit the continuous operation of fire control and utility lift pumps, (2) excess freshwater from pressure maintenance and secondary recovery projects, (3) water released during the training and testing of personnel in fire protection, (4) water used to pressure test piping, (5) once through, non-contact cooling water, and (6) potable water released during transfer and tank emptying operations and condensate from air conditioner units.

59. *Uncontaminated Seawater*: is seawater which is returned to the sea without the addition of chemicals. Included are: (1) Discharges of excess seawater which permit the continuous operation of fire control and utility lift pumps, (2) excess seawater from pressure maintenance and secondary recovery projects, (3) water released during the training and testing of personnel in fire protection, (4) seawater used to pressure test piping, and (5) once through, noncontact cooling water.

60. *Uncontaminated Water*: freshwater or saltwater that is returned to the receiving water without the addition of any chemicals. Included are (1) discharges of excess water that permit the continuous operation of fire control and utility lift pumps, (2) excess water from pressure maintenance and secondary recovery projects, (3) water released during the training and testing of personnel in fire protection, (4) once-through, non-contact cooling water, (5) potable water released during transfer and tank emptying operations, (6) condensate from air conditioning units, (7) seawater cooling overboard discharge, (8) chain locker effluent, and (9) fire main system discharge.

61. *Utility Wash Water*: Wash water, excluding internal and external vehicle wash water. This wastewater may include wash water from the washing of uncontaminated tanks or vessels, items at a rental store, warehouse floors, etc. with or without soaps and/or detergents.

62. *Visible Sheen*: a "silvery" or "metallic" sheen, gloss, or increased reflectivity, visual color, or iridescence.

63. *Waters of the State*: means all surface waters within the state of Louisiana and, on the coastline of Louisiana and the Gulf of Mexico, all surface waters extending there from three miles into the Gulf of Mexico. For purposes of the Louisiana Pollutant Discharge Elimination System, this includes all surface waters which are subject to the ebb and flow of the tide, lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, natural ponds, impoundments of waters within the state of Louisiana otherwise defined as "waters of the United States" in 40 CFR 122.2 and tributaries of all such waters. "Waters of the state" does not include waste treatment systems, including treatment ponds or lagoons designed to meet the

OTHER REQUIREMENTS (continued)

requirements of the Clean Water Act, 33 U.S.C. 1251 et seq.

64. *Well Treatment Fluid*: fluids used to restore or improve productivity by chemically or physically altering hydrocarbon bearing strata after a well has been drilled. These fluids include substances such as acids, solvents, and propping agents.

65. *Workover Fluid*: salt solutions, sometimes containing specialty additives, which are used in a producing well to allow safe repair and maintenance procedures. High solids drilling fluids used during workover operations are not considered workover fluids by definition and therefore must meet drilling fluid effluent limitations before discharge may occur. Packer fluids, low solid fluids between the packer, production string and well casing, are considered to be workover fluids.