United States Environmental Protection Agency
Region 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

# AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR OIL AND GAS EXPLORATION, DEVELOPMENT AND PRODUCTION FACILITIES IN STATE AND FEDERAL WATERS IN COOK INLET, ALASKA

In compliance with the provisions of the Clean Water Act, 33 U.S.C. §1251 et seq., as amended by the Water Quality Act of 1987, P.L. 100-4 (the Act or CWA), the following discharges:

| Discharge Number | Discharge Description |
|---|---|
| 001 | Drilling Fluids and Drill Cuttings |
| 002 | Deck Drainage |
| 003 | Sanitary Wastes |
| 004 | Domestic Wastes |
| 005 | Desalination Unit Wastes |
| 006 | Blowout Preventer Fluid |
| 007 | Boiler Blowdown |
| 008 | Fire Control System Test Water |
| 009 | Non-Contact Cooling Water |
| 010 | Uncontaminated Ballast Water |
| 011 | Bilge Water |
| 012 | Excess Cement Slurry |
| 013 | Mud, Cuttings, Cement at Seafloor |
| 014 | Waterflooding Discharges |
| 015 | Produced Water and Produced Sand |
| 016 | Completion Fluids |
| 017 | Workover Fluids |
| 018 | Well Treatment Fluids |
| 019 | Test Fluids |

are authorized from Offshore and Coastal Subcategories of the Oil and Gas Extraction Point Source Category (40 CFR Part 435, Subparts A and D) to Cook Inlet, Alaska, and in accordance with the effluent limitations, monitoring requirements, prohibitions, and other conditions set forth herein.

This Permit is issued on December 10, 2008.

This Permit shall become effective on December 24, 2008.

This Permit and the authorization to discharge shall expire at midnight, **July 2, 2012.**

The permittee shall reapply for a permit in accordance with Section I.D.3. prior to the expiration date of this permit if the permittee intends to continue operations and discharges at the facility beyond the term of this permit.

Signed this 10th of December, 2008

Michael F. Gearheard
Director
Office of Water & Watersheds
Region 10
U.S. Environmental Protection Agency

surfactants, dispersants, and detergents in accordance with Section VI.B of this permit.

7. The permittee must separate area drains for washdown and rainfall that may be contaminated with oil and grease from those area drains that would not be contaminated so that the waste streams are not commingled. Deck drainage that is contaminated with oil and grease must be processed through an oil-water separator prior to discharge.

8. The permittee is not required to conduct monitoring for the facility when it is not staffed. The permittee must provide EPA and ADEC written notification that the facility is no longer staffed 30 days prior to terminating monitoring requirements.

9. The permittee shall not discharge diesel oil, halogenated phenol compounds, trisodium nitrilotriacetic acid, sodium chromate, or sodium dichromate.

10. If any discharges are commingled, the most stringent effluent limitations for each individual discharge shall be applied to the resulting discharge. If the individual discharge is not authorized, the commingled discharge is not authorized.

11. If requested, the permittee shall provide EPA with a sample of any waste stream in the manner specified by EPA.

12. The discharge of maintenance waste such as removed paint and materials associated with surface preparation and coating applications is prohibited. Such materials shall be contained to the maximum extent practicable using vacuum abrasive blasting, covering grated areas with plywood, surrounding the area with canvas tarps and similar measures to capture as much material as practicable. All collected material shall be disposed of at an appropriate shore based facility. Prior to conducting sandblasting or similar maintenance activities, operators shall develop and implement a Best Management Practices (BMP) plan for the containment of waste materials.

Footnotes:

[1] If discharge occurs during broken or unstable ice conditions, or during stable ice conditions, the Static Sheet Test must be used (see Appendix 1 to 40 CFR part 435, subpart A).

[2] When discharging. The monitoring frequency is reduced to monthly if the permittee has complied with this requirement for three consecutive months.

[3] Contaminated deck drainage must be processed through an oil-water separator prior to discharge (See Section II.C.2) and samples for that portion of the deck drainage collected from the separator effluent must be sampled for WET testing.

[4] Sample must be collected during a significant rainfall or snow melt. If discharge of deck drainage separate from produced water is initiated after the first year of the permit, sampling must occur during the year following the initiation of separate deck drainage discharge.

2. The permittee must ensure that deck drainage contaminated with oil and grease is processed through an oil-water separator prior to discharge. Once per discharge event, the permittee must sample deck drainage discharges that are processed through the oil-water separator and test for sheen using the Static Sheen Test in 40 CFR part 435, subpart A. For analysis of Total Aromatic Hydrocarbons (TAH) and Total Aqueous Hydrocarbons (TaqH) all analytical requirements cited in Alaska Standards, 18 ACC 70.020(b), are applicable.

3. **Commingled Waste Streams.** If deck drainage is commingled with produced water, then this discharge shall be considered produced water for monitoring purposes (see Section II.G). The estimated deck drainage flow rate must be reported in the comment section of the DMR.

## D. Requirements for Sanitary Waste Water (Discharges 003)

1. **Effluent Limitations and Monitoring Requirements**. In addition to the restrictions set out in Sections II.D.2-3, the permittee must comply with the following effluent limitations and monitoring requirements.

2. For any facility located in Federal Waters using a marine sanitation device (MSD), the permittee must conduct annual testing of the MSD to ensure that the unit is operating properly. The permittee must note on the December DMR the results of the test.

## Table 7-A: Effluent Limitations and Monitoring Requirements for Produced Water and Produced Sand

| Parameter | Effluent Limitations | | Monitoring Requirements | |
|---|---|---|---|---|
| | Avg. Monthly | Max. Daily | Sample Frequency | Sample Type |
| Flow Rate (mgd) | Report | Report | 1/Week | Estimate |
| Produced Sand | No Discharge | No Discharge | — | — |
| Oil and Grease | 29 mg/l | 42 mg/l | 1/Week | — note 1 |
| pH < 1 MGD note 3 | 6.0 to 9.0 S.U. | | 1/Month | Grab |
| pH > 1 MGD note 3 | 6.0 to 9.0 S.U. | | 1/Week | Grab |
| Free Oil | Report note 2 | | 1/Day | Visual note 2 |

Footnotes:

1 The sample type shall be either grab, or a 24-hour composite which consists of the arithmetic average of the results of 4 grab samples taken over a 24-hour period. If a sample is unavailable to be analyzed and the permittee has explained the reason in the DMR, averaging of the remaining samples is permitted. If only one sample is taken for any one month, it must meet both the daily and monthly limits. See Section II.G.6.b of this permit.

2 See Section II.G.6.b of this permit.

3 based on the previous month's monthly average discharge rate.

## Table 7-B: Facility Specific Incremental Water Quality Based Limits and Monitoring Requirements

### Table 7-B1: Granite Point Treatment Facility and Platform

| Parameter | Effluent Limitations | | Monitoring Requirements | |
|---|---|---|---|---|
| | Avg. Monthly | Max Daily | Frequency | Sample Type |
| TAH note 1 | 14 mg/l | 20 mg/l | 1/Month | Grab |
| TAqH note 1 | — | — | 1/Month | Grab |
| Unionized Ammonia | — | — | Quarterly | Grab |
| Copper note 3 | 67 ug/l | 130 ug/l | 1/Month note 2 | Grab |
| Mercury note 3 | 3.1 ug/l | 7.9 ug/l | 1/Month note 2 | Grab |
| Manganese note 3 | 6.1 mg/l | 12.3 mg/l | 1/Month note 2 | Grab |
| Silver note 3 | 37 ug/l | 74 ug/l | 1/Month note 2 | Grab |
| Zinc note 3 | 1.5 mg/l | 3.1 mg/l | 1/Month note 2 | Grab |
| WET | 1341 TUc | 2691 TUc | 1/Quarter note 2 | Grab |