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TRANSMITTAL LETTER FOR THE CONDITIONS FOR AIR POLLUTION CONTROL PERMIT  
TO CONSTRUCT, INSTALL, OR ALTER CONTROL APPARATUS OR EQUIPMENT NWS  
EARLE NJ  
2/9/1998  
STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION



**State of New Jersey**

Department of Environmental Protection

Christine Todd Whitman  
Governor

Robert C. Shinn, Jr.  
Commissioner

Bureau of Air Quality Engineering  
Air Quality Permitting Program  
New Jersey Department of Environmental Protection  
P.O. Box 027  
Trenton, New Jersey 08625  
February 9, 1998

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

A. J. Hermanni  
Safety Director  
United States Navy  
Naval Weapons Station Earle  
Colts Neck, New Jersey 07722-5014

Re. Air Pollution Control (APC) Permit Application  
for a Bioslurping Project

Applicant's Designation of Stacks: Bioslurping Stack #1, Bioslurping Stack #2  
Log Numbers: 01-97-2404, 01-97-2043  
Approval Status Code: 51 Conditional-Temporary

Dear Mr. Hermanni:

The New Jersey Department of Environmental Protection (Department) has reviewed the referenced air pollution control permit application for the Bioslurping Project for the U.S. Navy site in Colts Neck, New Jersey. On the basis of all the information available, the Department concludes that the facility satisfies all applicable requirements of the New Jersey Air Pollution Control Regulations codified at N.J.A.C. 7:27-1 et seq.

The application involves the treatment of soil and groundwater by a combination of vacuum-enhanced free product recovery and bioventing.

The conditions of approval for the Bioslurping Project are attached. All of these conditions must be complied with or a violation of the permit will result.

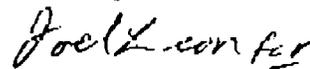
You are authorized to commence construction on this project on the effective date of this permit. This permit incorporates by reference all the conditions in the air pollution control permit application dated June 25 as well as the attached Conditions. The conditions of approval take precedence over conditions described in the application and subsequent submittals if there is any inconsistency.

If, in your judgement as an applicant for an air pollution control permit, the Department is imposing any unreasonable Condition of Approval, you may contest the Department's decision and request a contested case hearing pursuant to the Administrative Procedure Act, N.J.S.A. 52:14b-1 et seq. and the New Jersey Administrative Code at N.J.A.C. 1:1 and 7:27-8.12. All requests for a contested case hearing must be received in writing by the Department within 20 calendar days of the date you receive this permit approval and must contain the information specified in Attachment - I (Administrative Hearing Request Checklist and Tracking Form for Permits).

The status of this approval is referenced above. The Department will not issue a five year Certificate to Operate unless the applicant demonstrates that the conditions of the approval are met on a continuous basis. This may be the only document you will receive regarding this approval. The expiration date of this Certificate to Operate will be five years from the date of this Permit and Certificate approval. Please keep this document at the location of the equipment and make available to the Department upon request.

If you have any questions regarding this approval, please call Ann Ryan of my staff at (609) 292-1995, and refer to the log number above.

Sincerely



Dr. Iclal Atay, Chief  
Bureau of Air Quality Engineering

c: J. Preczewski, Chief, B1S  
CRO  
A. Ryan

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CONDITIONS FOR AIR POLLUTION CONTROL  
PERMIT TO CONSTRUCT, INSTALL OR ALTER  
CONTROL APPARATUS OR EQUIPMENT AND TEMPORARY  
CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT  
FOR  
UNITED STATES NAVY  
Colts Neck, New Jersey

Company Designation of Stack:	<b>Bioslurping Stack #1</b>
Log Number:	<b>01-97-2404</b>
Permit Certificate Number:	<b>To be assigned</b>
Date of Permit:	<b>February 9, 1998</b>

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I. DEFINITIONS

The Department, Regional Enforcement Office, BTS

II. FACILITY DESCRIPTION

A. Source Description

B. Stack Parameters

III. PRE-OPERATIONAL REQUIREMENTS

IV. OPERATIONAL REQUIREMENTS

A. ~~Monitoring Requirements~~

B. ~~Maximum Allowable Hourly Emission Rates~~

C. Operating Limitations

D. General Prohibition of Air Pollution

E. Visible Emissions

F. Recordkeeping

G. Reporting Requirements

H. Facility Inspection

**I. DEFINITIONS:**

The Department: New Jersey Department of Environmental Protection

Regional Enforcement Office(REO): New Jersey Department of Environmental Protection

Central Enforcement Office

P.O. Box 407

Trenton, New Jersey 08625-0407

(609) 584-4100

BTS:

Bureau of Technical Services

New Jersey Department of Environmental Protection

P.O. Box 411

Trenton, New Jersey 08625-0411

(609) 530-4041

**II. FACILITY DESCRIPTION:**

**A. SOURCE DESCRIPTION**

Bioslurping Equipment (Groundwater wells, oil water separator, pumps)

**B. STACK PARAMETERS**

Distance to Property Line: 3000 Feet

Stack Diameter: 4 Inches

Discharge Height Above Ground: 10 Feet

**III. PRE-OPERATIONAL REQUIREMENTS**

A detailed description of the sampling point locations, sampling equipment, and sampling and analytical procedures for the emission tests shall be submitted for review and approval to the Chief, BTS, within 30 calendar days after the approval of this application for implementing the testing required by Condition IV.A and for determining compliance with the maximum allowable emissions of the contaminants specified in Condition IV.B.

**IV. OPERATIONAL REQUIREMENTS:**

**A. MONITORING REQUIREMENTS:**

1. Testing shall be conducted for benzene and total VOC weekly during the first

~~month, twice during the second month, and monthly thereafter.~~

- ~~The flowrate to the processing equipment shall be monitored at least once per day...  
The monitoring equipment shall be operated consistent with the manufacturers specifications.~~

**B. MAXIMUM ALLOWABLE HOURLY EMISSION RATES:**

- The air contaminant emission rates from the stack shall not exceed the limitations outlined in the following table:

Contaminant	Maximum Allowable Hourly Emission Rate (Pounds/Hour)
Total Volatile Organic Compounds (VOC) <sup>1</sup>	<del>0.035</del>
Benzene	<del>0.008</del>

<sup>1</sup> The molecular weight of the VOC shall be assumed to be 84 pounds per mole.

- The stack exhaust contaminant concentration shall not exceed the limitations outlined in the following table:

Contaminant	Maximum Allowable Concentration Level (Parts per million by volume)
Total Volatile Organic Compounds	27.0
Benzene	7.0

**C. OPERATING LIMITATIONS:**

- The maximum volume of gas discharged from the stack shall be 100 actual cubic feet per minute.
- The contamination in the soils and groundwater to be remediated shall be petroleum hydrocarbons.
- The only emission point shall be the stack located at the MX P100 exhauster skid.

**D. GENERAL PROHIBITION OF AIR POLLUTION**

The equipment in this permit shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare,

animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property, except in areas over which the owner or operator has exclusive use or occupancy.

**E. VISIBLE EMISSIONS**

There shall be no visible emissions from the stack, exclusive of visible condensed water vapor.

**F. RECORDKEEPING**

The dates of operation of the Bioslurping Remediation, emissions data and flowrate data shall be recorded in a log book and shall be maintained in a manner approved by the Regional Enforcement Office and made available for inspection by the Department for a period of five years after the date of each record.

**G. REPORTING REQUIREMENTS**

1. Any operation of the equipment which causes a release of air contaminant in a quantity or concentration which poses a threat to public health, welfare, or the environment or which might reasonably result in citizen complaints shall be reported immediately by the facility by calling the Hotline (609) 292-7172, in accordance with Air Pollution Act, N.J.S.A. 26:2-19(e).
2. Any violation of a Condition of Approval shall be reported by telephone within 1 calendar day, and in writing within 3 calendar days to the Regional Enforcement Office.

**II. FACILITY INSPECTION**

Pursuant to N.J.A.C. 7:27-8.8(c), the equipment covered by this Permit and Certificate will be subject to service fees for a maximum of 5 periodic compliance inspection over the life of the Certificate. The Company will receive an invoice for a \$200.00 service fee for each inspection, pursuant to N.J.A.C. 7:27-8.11, after the periodic compliance inspection is conducted. For any supplemental services that are provided to the company to conform with any of the stipulated requirements of this approval, additional fees will be charged to the company in accordance with N.J.A.C. 7:27-8.11, Service Fees.

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CONDITIONS FOR AIR POLLUTION CONTROL  
PERMIT TO CONSTRUCT, INSTALL OR ALTER  
CONTROL APPARATUS OR EQUIPMENT AND TEMPORARY  
CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT  
FOR  
UNITED STATES NAVY  
Colts Neck, New Jersey

Company Designation of Stack: **Bioslurping Stack #2**  
Log Number: **01-97-2403**  
Permit Certificate Number: **To be assigned**  
Date of Permit: **February 9, 1998**

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A. Source Description

B. Stack Parameters

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IV. OPERATIONAL REQUIREMENTS

A. Monitoring Requirements

B. Maximum Allowable Hourly Emission Rates

C. Operating Limitations

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