



STATE OF MAINE

Department of Environmental Protection

MAIN OFFICE: RAY BUILDING, HOSPITAL STREET, AUGUSTA
MAIL ADDRESS: State House Station 17, Augusta, 04333

207-289-7688

JOHN R. MCKERNAN, JR.
GOVERNOR

DEAN C. MARRIOTT
COMMISSIONER

January 25, 1991

Brian J. Helland
Northern Division
Naval Facilities Engineering Command
U.S. Naval Base
Philadelphia, PA 19112-5094

Dear Mr. Helland

I am forwarding to you my comments on the Plan of Action, Fuel Farm Remedial Investigation, Naval Air Station Brunswick, Maine, October, 1990. I have presented these to Diana Mclaughlin for review and she has suggested that I send them to you directly.

Sincerely,

Bruce E. Hunter
Hydrogeologist
Division of Remedial Planning and Technical Services
Bureau of Oil and Hazardous Materials Control

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To <i>Brian Helland</i>	From <i>Bruce Hunter</i>
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MEMORANDUM

DEAN C. MARRIOTT
COMMISSIONER

JOHN R. MCKERNAN, JR.
GOVERNOR

TO: Diana McLaughlin

FROM: Bruce Hunter *BH*

DATE: January 24, 1991

RE: Plan of Action, Fuel Farm Remedial Investigation, Naval Air Station, Brunswick, Maine, October 1990, by O'Brien and Gere.

Soil Vapor Survey.

The number and locations of soil vapor survey points is not sufficient. Grid E must be extended 100 ft to the east on the three southern rows and 200 ft to the East of the northern row. Soil vapor points should be sampled on a 100' spacing in the whole area of the old tank farm (Grid C) in addition to the points proposed surrounding tank locations.

For quality control, a vapor filled bag must be sampled at intervals of every 1/2 hour for a period of 8 hours to verify that volatile organic compounds do not leak or degrade through time.

Ground Penetrating Radar:

It will be interesting to see if the equipment they propose to use can overcome this problem as they claim it will. The GPR subcontractors should provide evidence to show that clay can be penetrated by GPR. The GPR line should be run directly through well locations where the stratigraphy of surficial materials is known. This is necessary to know how to interpret the GPR signals in the attempt to use GPR to evaluate the stratigraphy.

Soil Borings.

Continuous split spoon sampling should be performed on at least 50% of the soil boring locations. The location most needed for continuous sampling are at MW18, 22, 23, 24, 25 to evaluate the potential extent of soil contamination. Continuous sampling is needed at MW20 of 21 to evaluate potentially complex surficial stratigraphy downgradient of the tank farm.

Monitoring Well Construction

Place the base of the screen in surficial wells at an elevation significantly below the tank bottoms. I would recommend depth 5 feet below, which would correspond to an elevation of 83 ft above mean sea level.

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Sampling and Analysis

Groundwater samples must be analyzed for semi-volatile organic compounds in addition to volatile organic compounds.

General

The report must be stamped by a Certified Maine Geologist.

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