



**DEPARTMENT OF THE NAVY**

NAVAL STATION  
LONG BEACH, CALIFORNIA 90822-5000

*File activity* *182 Action*

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NAVSTA LONG BEACH  
SSIC #5090.3

IN REPLY REFER TO:

5090  
N4/164  
19 Nov 1991

From: Commanding Officer, Naval Station, Long Beach  
To: Commanding Officer, Southwest Division, Naval  
Engineering Command, San Diego (Code 018)

Subj: HYDROGEOLOGIC STUDIES REQUESTED BY DEPARTMENT  
OF TOXIC SUBSTANCES (DTSC)

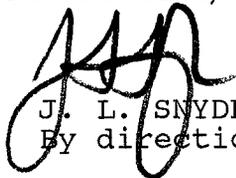
Ref: (a) OPNAVINST 5090.1A, Environmental and Natural  
Resources Program Manual paragraph 13-6.2g

Encl: (1) DTSC ltr dated 6 Nov 91

1. In enclosure (1), the California Department of Toxic Substances Control (DTSC) requires hydrogeologic studies as part of our Site Investigation, and such studies must be included in our Draft SI Report due 30 June 1992 to DTSC. DTSC cites RCRA requirements for this stipulation. Previous submittals and responses to DTSC drafted by or coordinated with SOUTHWESTDIV indicate we will not perform hydrogeologic studies until the RI/FS stage.

2. In accordance with reference (a), your assistance is requested to enable us to respond to DTSC's request.

3. Point of contact regarding this matter is Ms. Kim at (310) 547-6320/7651 or AUTOVON 360-6320/7651.

  
J. L. SNYDER  
By direction

Copy to:  
NSY Long Beach (Code 410)

## DEPARTMENT OF TOXIC SUBSTANCES CONTROL

REGION 4  
225 WEST BROADWAY, SUITE 350  
BEACH, CA 90802  
390-4868

November 6, 1991



Mr. T.G. Avgerinos, Director  
Environmental Protection Division  
Public Works Department  
Long Beach Naval Shipyard  
Long Beach, California 90822-5099

Lieutenant Commander J.L. Snyder  
Civil Engineer Corps, U.S. Navy  
Long Beach Naval Station  
Long Beach, California 90822-5000

Dear Mr. Avgerinos and Lieutenant Commander Snyder:

RCRA CORRECTIVE ACTION: LONG BEACH NAVAL SHIPYARD AND LONG BEACH  
NAVAL STATION (EPA ID NO. CA6170023109)

This is in response to your letter of October 18, 1991, in which you stated the Navy would not conduct hydrogeologic studies at both the Long Beach Naval Shipyard and Long Beach Naval Station until the "RI/FS" phase of investigation.

As you are aware, the California Department of Toxic Substances Control (Department) approved, with conditions, the RCRA Facility Investigation (RFI) Work Plans in a letter dated August 13, 1991. Our letter required the submittal of a draft RFI Report no later than June 30, 1992. Our letter also required that the draft RFI Report include comprehensive proposals for further investigative actions at both the Long Beach Naval Shipyard and Long Beach Naval Station.

As stated in our letter of August 13, 1991, in order to allow a more informed decision on additional investigations, information resulting from additional hydrogeologic studies must be submitted to the Department in the draft RFI Report, i.e., no later than June 30, 1992. The hydrogeologic studies must include: identification and characterization of site stratigraphy and the underlying ground water regime, such as the depth of aquifers, rate, volume and direction of ground water flow, potential hydraulic interconnections of water bearing zones, and areas where ground water is confined and unconfined. These studies should be based on field data, tests, cores, and any other necessary methods, in addition to the ground water monitoring wells recently installed, to obtain a representative

Mr. T.G. Avgerinos  
Lieutenant Commander J.L. Snyder

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and accurate classification and description of the hydrogeologic units which may be a part of migration pathways.

In conclusion, the Navy should utilize the results of the hydrogeologic studies in the preparation of the draft RFI Report due no later than June 30, 1992. Specifically, the information should be incorporated into the strategies (essentially equivalent to a Remedial Investigation (RI)) for additional investigations of soil, ground water and sediments to comply with all applicable RFI requirements.

If you have any questions concerning this matter, please contact Joe J. Zarnoch at (310) 590-4872.

Sincerely,



Mohinder S. Sandhu, P.E., Chief  
Facility Permitting Branch

Certified Mail (Avgerinos)  
P 759 289 172  
Return Receipt Requested

Certified Mail (Commander Snyder) ✓  
P 785 150 327  
Return Receipt Requested