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LETTER AND COMMENTS FROM U S EPA REGION I REGARDING WORK PLAN FOR
GEOPHYSICAL MAPPING NSY PORTSMOUTH ME
9/4/1998
U S EPA REGION I



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
JOHN F. KENNEDY FEDERAL BUILDING
BOSTON, MASSACHUSETTS 02203-0001

September 4, 1998

Mr. Fred Evans
Department of the Navy
Northern Division
Naval Facilities Engineering Command
10 Industrial Hwy., Mail Code 82
Lester, PA 19113-2090

Re: **Work Plan for MTADS Geophysical Mapping at the Portsmouth Naval Shipyard
Kittery, Maine**

The United States Environmental Protection Agency (EPA) has reviewed the document entitled "Work Plan for MTADS Geophysical Mapping at the Portsmouth Naval Shipyard, Kittery, Maine". EPA's comments on this document are provided in Attachment I to this letter.

If you have any questions regarding these comments, please contact me at (617)573-5785.

Sincerely,

A handwritten signature in cursive script that reads "Meghan F. Cassidy".

Meghan F. Cassidy
Remedial Project Manager

Enclosure

cc: Marty Raymond/PNS
Iver McLeod/ME DEP
Carolyn Lepage/Lepage Environmental
RAB Members

ATTACHMENT I

The following are EPA's comments on the document entitled "Work Plan for MTADS Geophysical Mapping at the Portsmouth Naval Shipyard, Kittery, Maine".

Editorial Comment

1. Some of the acronyms (i.e., MTADS, JILF) are not defined in the document. While this does not impact the proposed work, it is critical that any report of the findings of this survey work be documented in a report that is complete and readable.

Technical Comments

2. Page 3, last sentence, first paragraph: It is assumed that "acoustic measurements" means refraction seismic surveys. Please clarify this information when preparing a report of findings.
3. Page 5, first sentence: The statement is made that this technology has been described in detail previously. All future work plans and reports should reference where this information is available by providing a list of citations.

General Comments on Instrumentation

4. The Geometrics Model 822 magnetometer (with Cs vapor detectors) is an excellent (probably the best) instrument for this type of application (searching for shallow buried metallic objects). It can support very high sampling rates, therefore making it ideal for use in a towed system.

When preparing a report of findings, please include information regarding the modifications that have been made to the sensors in the MTADS. Include information regarding whether a gradiometer array was used in addition to a magnetometer array. If both types of arrays are to be used, ensure that the report describes the differences.

5. The Geonics EM-61 (a time-domain instrument) is ideal for identification and location of shallow buried metallic objects.

When preparing the report of findings, include information regarding any modifications that have been made to the EM-61 instrument for use with the MTADS system.