



DEPARTMENT OF THE NAVY

NORTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
10 INDUSTRIAL HIGHWAY  
MAIL STOP, #82  
LESTER, PA 19113-2090

2 N00102.AR.000826  
NSY PORTSMOUTH 5  
5090.3a

IN REPLY REFER TO

5090  
Code 1823/FE

30 MAR 2000

Ms. Meghan Cassidy  
U.S. Environmental Protection Agency, Region I  
1 Congress Street  
Suite 1100  
Mail Code HBT  
Boston, MA 02114-2023

Mr. Iver McLeod  
Maine Department of Environmental Protection  
State House Station 17  
Augusta, ME 04333-0017

Dear Ms. Cassidy/Mr. McLeod:

SUBJECT: SPRING 2000 INTERIM MONITORING SAMPLING FOR THE  
INSTALLATION RESTORATION PROGRAM AT PORTSMOUTH NAVAL  
SHIPYARD, KITTERY, ME

As part of the Spring 2000 monitoring round, the Navy will be collecting additional sediment for Preliminary Remediation Goal (PRG) data needs in accordance with the Interim Offshore Monitoring Plan. Enclosure (1) documents the locations/substations within each of the monitoring stations where the Navy proposes to collect additional sediment for toxicity testing. The locations were chosen first on the basis of exhibiting potential bioavailability and second on the basis of habitat based on data obtained in Round 1 of the monitoring program.

As indicated in enclosure (1), twenty-six locations/substations have been chosen based on bioavailability and habitat for the collection of additional sediment for PRG data needs. However, one location/substation has been chosen within Monitoring Station 11, where sediment may not be available for collection. The Navy will attempt to collect enough sediment at one of the locations/substations within Monitoring Station 11 to conduct analysis and toxicity testing.

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The Navy requests comments on these locations on or before  
April 14, 2000.

If additional information is required please contact Mr.  
Fred Evans at (610) 595-0567 x-159.

For the Community Restoration Advisory Board (RAB) members;  
if you have any comments or questions on these issues, they can  
be provided to the Navy at a RAB meeting, by calling the Public  
Affairs Office at (207) 438-1140 or by writing to:

Portsmouth Naval Shipyard  
Code 106.3R Bldg 44  
Attn Marty Raymond  
Portsmouth, NH 03804-5000

Sincerely,



Frederick J. Evans  
Remedial Project Manager  
By Direction of the  
Commanding Officer

Encl:

(1) Sample Locations Selected for Toxicity Tests

Copy to:

NOAA (K. Finkelstein)  
MEDMR (D. Card)  
Mr. Doug Bogen  
Ms. Michele Dionne  
Ms. Mary Marshall  
Mr. Jack McKenna  
Mr. Onil Roy  
Dr. Roger Wells  
PNS Code 100PAO  
PNS (Code 106.3R)

USFWS (K. Munney)  
NHFG (C. McBane)  
Mr. Jeff Clifford  
Ms. Eileen Foley  
Mr. Phil McCarthy  
Ms. Mary Menconi  
Ms. Johanna Lyons  
Ms. Carolyn Lepage  
COMSUBGRU TWO (R. Jones)  
TtNUS (D. Cohen)

**SAMPLES SELECTED FOR TOXICITY TESTS AND THE HABITAT/LOCATION OF EACH SAMPLE**  
**ROUND 2 - INTERIM OFFSHORE MONITORING PROGRAM**  
**PORTSMOUTH NAVAL SHIPYARD, KITTERY, MAINE**  
**PAGE 1 OF 1**  
**ENCLOSURE (1)**

Sample Number	Intertidal Zone	Subtidal Zone	Eelgrass Bed	Mussel Bed	Saltmarsh	Sample Selected for Toxicity Tests	Comments
OU4-SD-M01	-199A	1					
	-299A	1		1		X	PAH/TOC, Hg BAF
	-399A		1	1		X	High DDT/TOC
OU4-SD-M02	-199A		1			X	Subtidal habitat
	-299A	1		1		X	PCB BSAF, Cd BAF
	-399A	1			1		
OU4-SD-M03	-199A	1		1		X	PCB Tis
	-299A	1		1		X	High Cu ERM HQ; Cu, Ag, Zn, PCB Tis
	-399A		1				
OU4-SD-M04	-199A	1		1		X	Cu, Ni ERM HQ; Cu, Zn, PCB Tis
	-299A		1				
	-399A	1			1	X	High HMW PW HQ; DDE/TOC
OU4-SD-M05	-199A	1		1		X	Hg ERM HQ; Pb BAF; Pb, Hg, Zn Tis
	-299A		1	1		X	Subtidal habitat
	-399A	1		1			
OU4-SD-M06	-199A	1		1		X	Seep location
	-299A		1	1			
	-399A	1			1	X	Cu, Pb, Ag, Zn BAF
OU4-SD-M07	-199A	1		1		X	Seep location
	-299A		1				
	-399A		1				
OU4-SD-M08	-199A	1		1		X	Pb, Ni ERM; High HMW PW HQ
	-299A		1				
	-399A	1		1		X	Ni ERM; HMW PW HQ; SEM-AVS; Ni Tis
OU4-SD-M09	-199A	1		1		X	Ni ERM HQ, Ag BAF
	-299A	1				X	High HMW PW HQ; Hg BAF
	-399A		1				
OU4-SD-M10	-199A	1		1		X	High DDT/LIP; High Hg BAF
	-299A		1	1			
	-399A		1	1		X	PCB Tis
OU4-SD-M11	-199A	1		1			Sediment not available for collection during Round 1.
	-299A	1		1		(a)	High Cu, Pb, Ni ERM HQ; SEM-AVS; HMW/LIP; Cu, Pb, Hg, PCB Tis
	-399A	1				(a)	
OU4-SD-M12	-199A	1		1		X	High HMW PW HQ; HMW, PCB Tis
	-299A		1	1		X	HMW/LIPID; PCB BSAF; LMW, PCB Tis
	-399A		1				
OU4-SD-M13	-199A		1			X	High HMW/LIPID, LMW Tis
	-299A		1				
	-399A	1	1			X	HMW Tis; sediment collected from subtidal, mussel possibly intertidal during Round 1.
OU4-SD-M14	-199A	1			1	X	DDT BSAF
	-299A		1	1		X	DDE BSAF
	-399A		1				

**Notes:**

(a) - An attempt will be made to first collect a sediment sample at OU4-SD-M11-299A. If an inadequate amount of sediment is available at this station, an attempt will be made to collect sediment at OU4-SD-M11-399A. If no sediment is available at OU4-SD-M11-399A than no sediment will be collected at this monitoring station.

A = Comment Abbreviations related to potential elevated bioavailability of chemical analytes.

Analyte = Sediment concentration of the analyte.

Analyte Tis = Mussel tissue concentration of the analyte.

Analyte/TOC = Sediment concentration of the analyte divided by the sediment %TOC.

Analyte/Lipid = Mussel tissue concentration of the analyte divided by the mussel %Lipid.

Analyte BSAF = Mussel tissue concentration of the analyte normalized to mussel %Lipid divided by the sediment concentration of the analyte normalized to sediment %TOC (organic analytes only).

Analyte BAF = Tissue concentration of the analyte divided by the sediment concentration of the analyte (metal analytes only).

Analyte ERM HQ = Sediment concentration of the analyte divided by the NOAA Effects Range Median value.

Analyte PW HQ = Sediment concentration of the analyte converted to the pore water concentration and divided by the Acute Water Quality Screening Value.