



DEPARTMENT OF THE NAVY

NAVAL WEAPONS STATION EARLE
201 HWY 34 SOUTH
COLTS NECK, NEW JERSEY 07722-5001

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IN REPLY REFER TO

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From: Commanding Officer, Naval Weapons Station Earle
To : Distribution

Subj: MINUTES OF NAVAL WEAPONS STATION EARLE RESTORATION ADVISORY BOARD (RAB) MEETING OF 11 MARCH 97

Encl: (1) "Naval Weapons Station Earle Remedial Investigation (R.I.) Update," prepared by Mr. John Kolicius, Northern Division, Naval Facilities Engineering Command, 11 Mar 97.
(2) "1997 Program Plan" and "Proposed Remedial Actions," prepared by Mr. John Kolicius, Northern Division, Naval Facilities Engineering Command, 11 Mar 97.

1. A meeting of the Naval Weapons Station Earle RAB was held on Tuesday, 11 Mar 97 at 7:00 p.m. in Building C-54 (Conference Room), Naval Weapons Station Earle. The following Station and community representatives attended:

NAME	ORGANIZATION
Kevin Bova	Executive Director, WPNSTA Earle
Deborah Sciascia	Office of Counsel, WPNSTA Earle
Gus Hermanni	Safety Director, WPNSTA Earle
Dennis Blazak	Supervisory Environmental Engineer, WPNSTA Earle
Gregory Goepfert	Environmental Engineer, WPNSTA Earle
Mike Brady	Public Affairs Office, WPNSTA Earle
Janet Coakley	Howell Township, Environmental Commission
Lester Jargowsky	Monmouth County Health Department
John Kolicius	NORTHNAVFACENGCOM
John Mayhew	NORTHNAVFACENGCOM
Russ Turner	Brown & Root Environmental
Mervin Kinkade	Tinton Falls
Jeff Gratz	EPA Region II, Project Manager
Richard Brandstetter	Friends of Pine Brook
Bob Marcolina	New Jersey Department of Environmental Protection
Mary Lanko	Resident, Howell Township
Bob Weston	Asbury Park Press
Karen O'Reilly	Metcalf & Eddy

2. The minutes of the 14 Nov 96 meeting were reviewed, amended, and entered into the record.

(a) para. 8(b): "alteration" was amended to read "alternative."

3. Mr. Goepfert stated that the Remedial Action Report for Sites 24 & 25 (Closed Pistol Ranges) has been completed. Copies of the report were provided to the Messrs. Gratz and Marcolina. Additionally, the Final Remedial Action Reports for Sites 22, 23 and 27 (Paint Chip Sites) were recently forwarded to and received by Messrs. Gratz and Marcolina.



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4. Mr. Kolicius briefed the RAB on the Remedial Investigation Addendum Report (encl.(1)).

5. Mr. Kolicius briefed the RAB on the 1997 Program Plan with Proposed Remedial Actions (encl. (2)).

a. Regarding the reactive wall proposed for Site 26, Mr. Jargowsky asked, "what is the composition of the wall?"

Mr. Kolicius responded that the wall is composed of ground up iron fillings. A reduction-oxidation (REDOX) reaction takes place which allows the chlorine functional groups to be removed from the trichloroethylene solvent molecule, thereby detoxifying the solvent.

b. Site 16/F (Diesel Fuel Spill Site) will be designed such that two bioslurper units may operate simultaneously and independently to address the two spill focal points. A full scale design will be completed by May 1997 and both units will be operational by October 1997. [The slip in schedule was due to the need to address an unanticipated iron-buildup problem].

c. Sites 4 and 5 Landfills will be capped. Construction funds are available for Site 4 in September 1997; Site 5 capping is planned for FY98.

Mr. Jargowsky questioned if scrub pines on Site 4 would be cut down. Mr. Kolicius stated that the goal is produce a proper cap and if some of the scrub pines need to be cut down, then preventing percolation via capping would have to take precedence. Mr. Jargowsky opined that the Navy should assure that the most complete cap possible should be constructed. This was acknowledged by Mr. Kolicius. Mr. Jargowsky also asked, "how is the cap constructed?" Mr. Mayhew explained that although the cap has not been fully designed, a generic cap usually consists of a clay layer, a drainage area, a liner (geotextile or the like), etc.

d. Mr. Brandstetter asked what would happen to the reactive wall at Site 26 over a period of time, i.e., during or after the course of remediation?

Mr. Kolicius explained that upon conclusion of the remediation, the iron filings would stay in the ground. Mr. Gratz mentioned that the filings would be non-toxic.

e. Mr. Kinkade asked would the wall would follow the wetland delineation line?
Mr. Brandstetter asked, how big will the [subsurface] reactive wall be at Site 26?

Mr. Mayhew responded that although we do not know exactly, the wall would likely follow the drainage basin divide at the site; it would be approximately 120-140 foot long, two feet in width and would key into the clay layer. Mr. Kolicius offered that continuous trenching vice funneling would be done and the top of the wall would be sufficiently compacted so that the solvent would not escape over the wall.



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f. Mr. Gratz questioned, what other alternatives were examined for Site 26?

Standard pump and treatment technologies, air sparging and in well air sparging were considered, said Mr. Kolicius.

g. Mr. Goepfert asked, "would there be maintenance required on the wall?"
Mr. Marcolina wanted to know what kind of follow up monitoring would be performed?

Mr. Mayhew answered that the iron filings would not likely require replacement. Monitoring points would be established in the wall such that groundwater passing through the wall could be sampled and subsequently analyzed. Mr. Kolicius added that the reactive wall is an innovative technology; the technology is less than five years old and there has not been any cases presented so far where the iron filings required replacement.

h. Mr. Jargowsky suggested that perhaps an inexpensive field method (such as pH) might be used to determine the effectiveness of the reactive wall in treating the trichloroethylene.

This issue will be researched. A limiting factor will be that the reactive wall will theoretically have a higher permeability than the surrounding soils.

i. Mr. Goepfert outlined the schedule for the "Proposed Plans" for Sites 4, 5, 19 and 26:

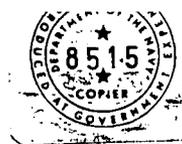
Proposed Plan Complete	21 March 1997
Public Comment Meeting (Colts Neck Courthouse is likely location)	24 April 1997
Record of Decision Complete	6 June 1997.

j. Mr. Bova asked, "would wetlands be capped at Site 5?"

Mr. Turner answered that hand augering was performed and that no trash was found in those areas. It is unlikely that a cap would be installed over the wetland area.

k. Mr. Blazak asked, when would the aerial photographs of Monmouth County be completed, and when would a complete set be available?

Mr. Jargowsky replied that the fly over is scheduled for Saturday, 15 March 1997. There will be 135 ground control points, and 22 additional points set for quality control. The (1') set will be complete in February, 1998.



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6. Milestones

a. The Proposed Plan for Sites 4, 5, 19 and 26 will be completed by 21 Mar 1997 (Brown & Root responsibility); legal notice requesting comments to be published in the Asbury Park Press as soon as possible after the internal review (Northern Division NAVFACENGCOM to coordinate).

7. Mr. Goepfert thanked everyone for attending the meeting. The next RAB meeting is scheduled for Thursday, 15 May 1997, 7:00 P.M. at Naval Weapons Station Earle, Building C-54 (Conference Room). The meeting adjourned at 8:10 P.M.

Submitted by: Gregory J. Goepfert
GREGORY J. GOEPFERT
Navy Co-Chair
Restoration Advisory Board

Approved/Reviewed by: D. E. Blazak
D. E. BLAZAK
By direction

Distribution:
RAB Members/Attendees

NAVAL WEAPONS STATION EARLE R. I. ADDENDUM UPDATE

SITE	WORK COMPLETED FALL 1996	RESULTS OF INVESTIGATION	NEXT ACTION PLANNED
SITE 3: LANDFILL SOUTHWEST OF "F" GROUP	SURFACE SOIL / SEDIMENT SAMPLES TAKEN TO DETERMINE IF COMPOUNDS IN DRAINAGE SWALE ARE SITE RELATED	CONCENTRATIONS OF METALS & PAHs WERE SIMILAR UPGRADIENT NO SIGNIFICANT SITE IMPACT	FEASIBILITY STUDY TO EVALUATE GROUNDWATER CONTROLS
SITE 12: BATTERY ACID SPILL SITE	ADDITIONAL SOIL SAMPLES TAKEN TO DETERMINE EXTENT OF LEAD-IMPACTED SOIL "HOT SPOT"	SAMPLES CONFIRMED THAT HIGH LEAD CONCENCRATIONS WERE LIMITED TO A SMALL AREA	REMOVAL OF LEAD IMPACTED SOIL
SITE 13: DEFENSE PROPERTY DISPOSAL YARD	HYDROPUNCH SAMPLING PERFORMED TO FIND EXTENT OF VINYL CHLORIDE 1 WELL INSTALLED BASED ON FINDINGS	ELEVATED VOCs WERE DETECTED NEAR THE LANDFILL TOE CONCENTRATIONS DIMINISH WITH DEPTH AND DISTANCE	ADDITIONAL DOWNGRAIDENT WELL TO BE INSTALLED FEASIBILITY STUDY & DEBRIS REMOVAL FROM TOE
SITE 16/F: BUILDING C-50 ROUNDHOUSE AREA	INDUCED FLUORESCENCE AND GEOPROBE USED TO DEFINE AREA OF FREE PRODUCT 4 WELLS INSTALLED AND SAMPLED	FUEL IMPACTED AREA DEFINED TWO SIGNIFICANT SOURCE AREAS IDENTIFIED	SCALE-UP OF BIOSLURPER SYSTEM FOR FREE PRODUCT RECOVERY
SITE 26: EXPLOSIVE "D" WASHOUT NEAR BLDG. GB-1	CONE PENETROMETER USED TO DEFINE SUBSURFACE STRATIGRAPHY MULTI-DEPTH GROUNDWATER SAMPLES OBTAINED TO DEFINE TCE PLUME	TCE PLUME DEFINED CLAY LAYER FOUND APPROX. 25 FEET BELOW GROUND SURFACE	REMEDIAL DESIGN IN-SITU TREATMENT USING REACTIVE WALL
SITES 6, 17: WATERFRONT AREA	SURFACE WATER / SEDIMENT SAMPLES IN MARSH AREAS ADJACENT TO SITES TO EVALUATE ECOLOGICAL IMPACT	NO EVIDENCE OF IMPACT FROM SITES ON THE MARSH	BANK STABILIZATION TO ELIMINATE EROSION THREAT

MAR 12 '97 05:38PM NORTHDTV ENVIRONMENT

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Encl (1)



1997 PROGRAM PLAN

PROPOSED FEASIBILITY STUDIES (Next Phase - Landfill Sites)

Sites 3, 10, 13

AWARD 4/97 - DRAFT COMPLETE 8/97

PROPOSED NO FURTHER ACTION RODS (Interim Actions Completed)

Sites 14, 20, 22, 23, 24, 25, 27, 29

AWARD 4/97 - COMPLETE 9/97

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Encl (2)

pg.



PROPOSED REMEDIAL ACTIONS

OU-1 SITES 4 & 5 LANDFILLS
Presumptive Remedy - Capping
Groundwater Monitoring
DESIGN AWARD 4/97

OU-2 SITE 19
Surface Soil Removal
SUMMER 1997

OU-3 SITE 26 BUILDING GB-1
In-situ Groundwater Treatment
Reactive Iron Wall Technology
DESIGN AWARD 8/97

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