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LETTER WITH ENCLOSED ABATEMENT MEASURES CHECKLIST AND REPORT FOR THE  
FOR THE WASH RACK AT LIGHTER AMPHIBIOUS RESUPPLY CARGO (LARC) 60 AREA  
FORT STORY VA  
3/11/1994  
U.S. ARMY TRANSPORTATION CENTER FORT EUSTIS VA



DEPARTMENT OF THE ARMY

U.S. ARMY TRANSPORTATION CENTER  
FORT EUSTIS, VIRGINIA 23604-5000

0051



REPLY TO  
ATTENTION OF

March 11, 1994

Directorate of Public Works

Ms LeAnn Moran  
Virginia Department of Environmental Quality  
Water Regional Office  
287 Pembroke Office Park  
Pembroke 2, Suite 310  
Virginia Beach, Virginia 23462

Dear Ms Moran:

Enclosed is the Initial Abatement Measures Checklist and Report for the Wash Rack at the LARC 60 Area, Fort Story (DEQ Tracking Number: PC 94-2275).

This site is part of the Installation Restoration Program (IRP) which parallels the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process (i.e. RI/FS, RD, RA, etc) and will be coordinated through the Department of Environmental Quality (DEQ) Federal Facilities Group, Superfund Program. The CERCLA process addresses past releases of hazardous substances into the environment.

It takes longer to complete investigations and remedial actions under the CERCLA process because of comprehensive studies and regulatory involvement. Other contaminants beside fuel products will also be investigated. For this reason, we request a waiver to the deadline for a Site Characterization Report.

We will keep you abreast of our actions to further investigate this site and future studies will meet requirements of a Site Characterization Report. If you have any questions, please contact Mr. Dan Musel at (804) 878-4123.

Sincerely,

Stephen A. McCall  
Chief, Environmental and  
Natural Resources Division

Enclosure

INITIAL ABATEMENT MEASURES REPORT CHECKLIST

Wash Rack at LARC 60 Area

Site: FT EUSTIS, VA PC# • 94-2275 Region T. Dewater

The following checklist must be filled out by the Responsible Party (RP) and/or the RP's Consultant and included in the Initial Abatement Report. Indicate on the checklist the page and section number where each item is addressed in the attached report. Also indicate on the checklist the section and page number where justification is given for items omitted from the attached report. The contents of the report should reflect and be commensurate with the nature of the release, degree of contamination and complexity of the site investigation.

**1. RELEASE INVESTIGATION AND CONFIRMATION STEPS**

Page /Section	
<u>1 / 1.1</u>	Evidence for suspecting a release has occurred
<u>1 / 1.1</u>	Monitoring results from release detection used
<u>1 / 1.2</u>	Results of tank/line tightness test
<u>1 / 1.2</u>	Actions taken to repair, replace, upgrade UST

**2. SITE CHECK**

<u>1 / 2.1</u>	Measures taken to identify the source of release
<u>1 / 2.2</u>	Depth to ground water
<u>1 / 2.3</u>	Description and justification of sampling
<u>1 / 2.3</u>	types (ground water, soil)
<u>1 / 2.4</u>	locations (include site map)
<u>2 / 2.5</u>	parameters, EPA methods, units, and detection limits

**3. INITIAL ABATEMENT MEASURES**

<u>2 / 3.1</u>	Release inspection results and measures taken to prevent further migration of contaminants into soils and ground water
<u>2 / 3.1</u>	Regulated substance removed from UST system
<u>2 / 3.3</u>	Efforts to mitigate fire and safety hazards
<u>2 / 3.4</u>	Efforts to measure for the presence of free product
<u>2 / 3.4</u>	Efforts to remove free product
<u>2 / 3.2</u>	Measures taken, as part of Initial Abatement, to address -- contaminated ground water and soils, tank water and sludges, and debris (i.e. tanks, piping, concrete) Include permits

*attached.*  
1 Initial Abatement Measures Report submitted within 20 days of release confirmation or extension granted

FOR OFFICE USE ONLY

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEFICIENCIES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

INITIAL ABATEMENT MEASURES REPORT  
FOR  
WASH RACK AT LARC 60 AREA, FT STORY

DEQ Tracking Number: PC 94-2275

Date: March 10, 1994

## 1.0 Release Investigation and Confirmation Steps

1.1 A site assessment was conducted at the 80th Division LARC 60 Area, Ft Story to determine soil quality in an area to be excavated around a wash rack. The wash rack is to be expanded and a runoff collection system installed. Soil sampling results indicated total petroleum hydrocarbons (TPH), lead, and perchloroethylene (PCE) in the soil up to 2,390, 186, and 2.75 mg/kg, respectively. Attachment 1 is the analytical results and a site map with sample locations.

1.2 The release is believed to have come from the activities associated with the wash rack. A tank tightness test conducted on the underground storage tank (UST) in September 1993 revealed the tank to be in good condition and not leaking. Since the UST is not suspected to be leaking, no repairs or upgrades will be conducted on the tank.

## 2.0 Site Check

2.1 The source of the release is believed to be the runoff from the wash rack. Nine soil samples were submitted for chemical analysis. To better determine the vertical extent of the contamination, four additional samples were analyzed for lead and TPH. The results show the contamination to be limited to 0'-4'. No other samples were taken at the site.

2.2 No monitoring wells are installed in the area; however, previous studies at Ft Story show the ground water to be more than 8 feet below ground surface.

2.3 The site assessment consisted of soil screening and soil sampling. The field work was conducted on 11-12 February 1994. The details of the assessment are in attachment 2, Final Site Assessment Workplan. Forty soil samples were screened with a portable photo-ionization detector (PID). Nine field samples and one QA/QC duplicate sample were submitted for each of the three types of chemical analysis -lead, VOCs, and TPH. Four additional samples were submitted later for lead and TPH analysis. No groundwater samples were collected.

2.4 The locations and depths of the samples were determined based on the construction activity to be conducted in the area.

Around the wash rack, samples were collected at 0'-2' or 2'-4' intervals, depending on the planned excavation. In the area of the planned sewer line, the depth of sampling was to 8'. The sample results and site map in attachment 1 indicate the depth of the samples.

2.5 The analytical methods were in accordance with Test Methods For Evaluation Solid Waste, SW-846 (third edition). The following analytical methods were used by the analytical laboratory:

<u>Analyte</u>	<u>Test Method</u>	<u>Analyte</u>	<u>Test Method</u>
VOCs	8240	TPH	418.1
Antimony	7040	Mercury	7470
Arsenic	7060	Nickel	7520
Beryllium	7090	Selenium	7740
Cadmium	7130	Silver	7760
Chromium	7190	Thallium	7840
Copper	7210	Zinc	7950
Lead	7420		

The units for the samples are in mg/kg. The certified sample results sheets from the lab are not available. They will be provided in the final assessment report, which is scheduled to be completed by the end of March 1994.

### 3.0 Initial Abatement Measures

3.1 There was no observed release from the UST or the aboveground storage tank in the area. No substances were removed from these tanks. Four additional samples were analyzed to better determine the vertical extent of contamination. The results indicated the contamination is limited to 0'-4'.

3.2 Construction in the area of the SB01 through SB06 was not permitted to continue because of the contamination encountered. However, construction to extend the concrete pad was permitted to continue. The soil removed during construction will be stockpiled in a bermed area and disposed of properly according to all federal, state, and local regulations.

3.3 There are no immediate fire or safety hazards associated with the site. The area of high contamination will not be disturbed and will remain underground in place until future investigations determine the extent of contamination and appropriate remediation measures.

3.4 The site assessment consisted of only soil sampling. No monitoring wells were installed to detect if free product is present at the site.

**ATTACHMENT 1**  
**SAMPLE RESULTS AND SITE MAP**

**TABLE 2**  
**SUMMARY OF TPH DATA**  
**80th Division LARC-60 Area**  
**Fort Story, Virginia**

Results are in mg TPH/kg soil

Sample Location	0-2' Interval	2-4' Interval	4-6' Interval	6-8' Interval
SB01	824	7.9	<2.5	NS
SB02	1270	4.50	NA	NA
SB03	2390	<2.5	NA	NA
SB03 duplicate	470	NS	NS	NS
SB04	NA	NA	NA	NS
SB05	722	208	12.5	NS
SB06	NA	NA	NS	NS
SB07	NA	NA	NS	NS
SB08	NA	NS	NS	NS
SB09	NA	NA	NS	NS
SB10	NA	NS	NS	NS
SB11	NA	<2.5	NS	NS
SB12	NA	NS	NS	NS
SB13	NA	NA	NS	NS
SB14	NA	NS	NS	NS
SB15	<2.5	NA	NS	NS
SB16	NA	NS	NS	NS
SB17	NA	<2.5	NS	NS
SB18	NA	NS	NS	NS
SB19	NA	NA	NS	NS
SB20	NA	NS	NS	NS

NS - No sample collected from this interval

NA - Sample collected and screened by PID, but not analyzed for TPH

**TABLE 4**  
**SUMMARY OF LEAD DATA**  
**80th Division LARC-60 Area**  
**Fort Story, Virginia**

Results are in mg lead/kg soil

Sample Location	0-2' Interval	2-4' Interval	4-6' Interval	6-8' Interval
SB01	285	NA	NA	NS
SB02	93	11	NA	NA
SB03	124	12	NA	NA
SB03 Duplicate	186	NS	NS	NS
SB04	128	NA	NA	NS
SB05		NA	NA	NS
SB06	36	NA	NS	NS
SB07	36	NA	NS	NS
SB08	13	NS	NS	NS
SB09	87	NA	NS	NS
SB10	66	NS	NS	NS
SB11	11	NA	NS	NS
SB12	NA	NS	NS	NS
SB13	NA	NA	NS	NS
SB14	NA	NS	NS	NS
SB15	NA	NA	NS	NS
SB16	NA	NS	NS	NS
SB17	NA	NA	NS	NS
SB18	NA	NS	NS	NS
SB19	NA	NA	NS	NS
SB20	NA	NS	NS	NS

NS - No sample collected from this interval

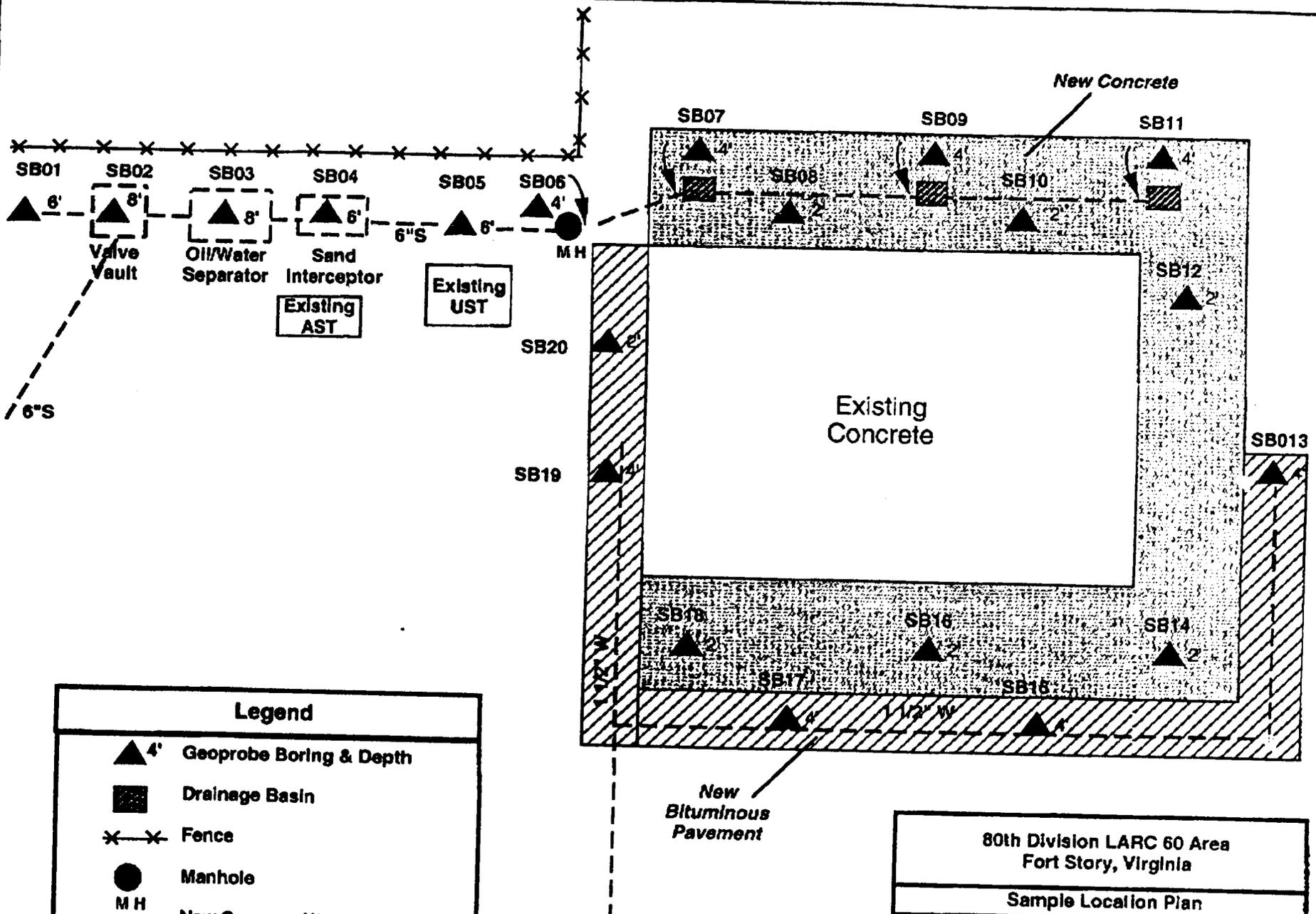
NA - A sample was collected from this interval, but not analyzed for lead

**TABLE**  
**SUMMARY OF VOC DATA**  
**80th Division LARC-60 Area**  
**Fort Story, Virginia**

Samples were analyzed for the full range of parameters in Method 8240. Detection limits are indicated in Table .

Sample Location	0-2' Interval	2-4' Interval	4-6' Interval	6-8' Interval
SB01		None Detected	None Detected	
SB02	None Detected			
SB03	None Detected			
SB03 duplicate	None Detected			
SB04				
SB05	None Detected		2.75 mg/kg PCE	
SB06				
SB07				
SB08				
SB09				
SB10				
SB11		None Detected		
SB12				
SB13				
SB14				
SB15	None Detected			
SB16				
SB17		None Detected		
SB18				
SB19				
SB20				

Blank entries indicate that no sample was collected, or the sample was not analyzed for VOCs.



Legend	
	4' Geoprobe Boring & Depth
	Drainage Basin
	Fence
	Manhole
	New Sewer or Water Line

80th Division LARC 60 Area Fort Story, Virginia	
Sample Location Plan	
MONTGOMERY WATSON	Figure 2