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FORWARDED E-MAIL TRANSMITTING WORK PLAN ADDENDUM LIGHTER AMPHIBIOUS
RESUPPLY CARGO (LARC) 60 AREA FORT STORY VA
1/12/2004
INSTALLATION RESTORATION PROGRAM FORT EUSTIS

Bateman, Joanna G

From: Bateman, Joanna G
Sent: Monday, January 12, 2004 5:13 PM
To: trparnell@deq.state.va.us
Subject: FW: LARC 60 Work Plan Addendum

Importance: Low



WP Addendum.doc (41 KB) Fig 1-1.dwg (351 KB)

Here is the old e-mail message I mentioned.

Joanna G. Bateman
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-----Original Message-----

From: Pace, Tony [mailto:TPace@PIRNIE.COM]
Sent: Wednesday, June 04, 2003 10:11 AM
To: Joanna Bateman (E-mail)
Subject: LARC 60 Work Plan Addendum
Importance: Low

Joanna,

For the field work associated with the installation and sampling of the 2 new wells required at the LARC 60 site (to define the plume in the area of 6MW-7), we have prepared a very short addendum (3 pages in length) to be used. The bulk of the information provided in the previous Work Plan Addendum is referenced but there was no need to repeat it for this small field assignment. I have attached the addendum and figure for your review. We can then forward on to Tony Parnell for his comment.

<<WP Addendum.doc>> <<Fig 1-1.dwg>>

The figure is the same one as provided in the March 2003 Groundwater Sampling Report.

Will start working on the Oil/Sludge Holding Pond RA sampling plan tomorrow with submission to you by next week sometime.

Tony Pace
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1.0 INTRODUCTION

Malcolm Pirnie, Inc. was contracted by the U.S. Army Corps of Engineers (USACE), Baltimore District to conduct additional groundwater investigations at the LARC 60 Maintenance Area site at Fort Story, Virginia under Contract DACA31-00-D-0043.

To supplement the data gathered during previous investigations and to further refine the plume configuration, six additional monitoring wells were installed, developed, and sampled at the site in January 2003. The wells were installed at the following locations:

- Cluster wells (one shallow and one deep) (6MW-5S and 6MW-5D) were installed approximately 300 feet downgradient of the former UST location.
- One well (6MW-6) was installed approximately 200 feet west of the cluster wells.
- One well (6MW-7) was installed approximately 200 feet east of the cluster wells.
- One well (6MW-8) was installed approximately 300 feet east of the cluster wells 6MW-3S and 6MW-3D.
- One well (6MW-9) was installed approximately 300 feet downgradient (north) of the cluster wells 6MW-3S and 6MW-3D.

Concentrations of various VOCs continue to exceed EPA RBCs and/or EPA MCLs across the site. However, only a few detects above the EPA MCLs are currently present for the VOCs with the major area of concern continuing to be the area adjacent to and just downgradient of the former source area (former UST). However, with the detection of tetrachloroethene (PCE) at 11 micrograms per liter ($\mu\text{g/L}$) from 6MW-7, the full plume configuration required for potential remediation has not been identified in that area of the site. Therefore, as discussed in the Groundwater Monitoring Report, dated March 2003, ***it is recommended that two additional monitoring wells be installed and sampled to further refine the plume configuration.***

This Work Plan Addendum supplements the information provided in the Final Work Plan Addendum for the *Groundwater Investigations for The*

Treatability/Feasibility Study, dated December 2002. Protocols or methodologies related to the following issues are the same as provided in the previous Addendum and will not be repeated in this Addendum:

- Data Quality - Section 1.3 in previous Addendum
- Investigation Methodologies (monitoring well installations and sampling procedures are the same as previously provided) – Section 1.4 in previous Addendum
- Quality assurance/quality control – Section 2 in the previous Addendum
- Health and Safety – Section 3 in the previous Addendum

2.0 SITE-SPECIFIC FIELD INVESTIGATIONS

The following sections outline the specific field activities to be performed at the LARC 60 site at Fort Story. To assist in the planned remedial design for the groundwater at the site and to further refine the plume configuration at the site, the installation and sampling of two additional monitoring wells are required.

A summary of the field investigation and sampling and laboratory analysis program for the LARC 60 site is provided below:

Well Installation

To supplement the data gathered during previous investigations and to further refine the plume configuration, two additional monitoring wells will be installed and developed at the site. The wells will be installed at the following locations:

- One well shall be installed approximately 200 feet east of monitoring well 6MW-7 to further define the lateral extent of remediation required
- One well shall be installed approximately 300 feet downgradient (northeast) of monitoring well 6MW-7 to further define the lateral extent of remediation required

Each well will have a 10-foot screened interval with one foot of the screened interval set above the water table interface. The depth to water across the site is approximately 5 to 8 feet below land surface.

Groundwater Sampling and Analysis

Groundwater samples will be collected from two newly installed wells at the LARC 60 site. Samples will be analyzed for TCL volatile organic compounds (VOCs). Laboratory turnaround time (TAT) will be 21 days. The locations of these monitoring wells are provided on **Figure 1**. A full round of water level measurements from all site wells will also be conducted so that a groundwater contour map can be prepared for the site.

As discussed in the previous Addendum, a CLP-equivalent data package will be generated for the analytical data. The CLP-equivalent data that will be generated will be sufficient for data validation in accordance with the M-2 (organic) procedures.