

Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Tuesday, April 12, 2011 4:06 PM
To: 'PDKing0000@aol.com'
Cc: donaldjaym@comcast.net
Subject: RE: California Linen (RO 337); Meeting Followup - Request for Updated Work Plan

Thanks Paul,

The approach largely seems reasonable, and tweakable if need be. Thanks for the update on your talks with LeRoy.

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PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

From: PDKing0000@aol.com [mailto:PDKing0000@aol.com]
Sent: Tuesday, April 12, 2011 3:51 PM
To: Detterman, Mark, Env. Health
Cc: donaldjaym@comcast.net
Subject: Re: California Linen (RO 337); Meeting Followup - Request for Updated Work Plan

Hi Mark,

I cc'd you last week 4/7/11 on the e-mail to LeRoy Griffin at the Oakland Fire Department Hazmat division where I requested that he review existing files for evidence of USTs for those portions of 41st Street, 42nd Street, and 43rd Street that are bounded by Linden Street on the west and Market Street on the east. During a telephone conversation with LeRoy on 4/7/11, LeRoy told me that UST permit files essentially do not exist prior to 1988, and that record keeping for existing UST permit files was very inconsistent prior to approximately 1994. For this reason it is possible that prior to 1988 or 1994 any USTs that were installed with permits may not be revealed during the requested file review. I have followed up with him to find out when the results of the file review should be available, and will let you know when I hear from him.

LeRoy told me that he will be contacting property owners in the vicinity of the intersections of Linden Street and 41st and 42nd Streets to see if he can identify evidence of sources for petroleum hydrocarbons that have been detected in the subsurface in the site vicinity. It is for this reason that LeRoy asked me for supporting evidence of the westerly to southwesterly groundwater flow direction in the site vicinity. I do not know how long it will take LeRoy to contact the property owners or to receive responses from them. I have followed up with him to find out, and will let you know when I hear from him.

I have summarized all metals results for samples collected from fill beneath the site and have contacted DTSC toxicologists and the director of CalEPA HERD to verify appropriate statistical methods for evaluation of the risk and hazard posed by metals in fill beneath the California Linen site. The proposed statistical analytical methods for evaluation of the fill beneath the site will be included in the upcoming work plan for the California Linen site.

During our 3/30/11 meeting regarding California Linen we had discussed that I will prepare a work plan for the next steps of site investigation, and that the work plan will include summaries of activities to date. During discussions prior to our 3/30/11 meeting and during the 3/30/11 meeting I had suggested that we should resolve identification of potential

offsite upgradient petroleum sources prior to proposing any downgradient offsite investigation. I stated that my main concern is that we not investigate downgradient of the central portion of the California Linen site pending verification of potential offsite upgradient petroleum sources in the central portion of the subject site that are suggested by soil gas data at the subject site.

You will find attached a DRAFT pdf copy of a site vicinity aerial photograph showing the location of a proposed resistivity profile for the area upgradient of the California Linen site (document DRAFT Dipole Resistivity Investigation Map.pdf). This figure will be included in the recently requested work plan. The streets will be labeled and a north arrow will be added prior to release of the figure in the work plan.

The proposed scope of work for the work plan will include the following.

- o An upgradient resistivity profile to identify potential upgradient buried paleochannels that could be natural conduits for transportation of petroleum to the California Linen site.
- o Soil gas confirmation sampling at upgradient locations identified on the resistivity profile as potential upgradient buried paleochannels.
- o Installation of permanent sub-slab soil gas wells and adjacent 5-foot deep soil gas wells at two locations at the California Linen site (a total of four wells) where the highest benzene concentrations were encountered at a depth of 5 feet for evaluation of vertical attenuation of soil gas concentrations and also to evaluate risk and hazard for indoor air.
- o Statistical analysis of metals concentrations in fill located beneath the California Linen site for risk and hazard associated with residential development of the site.
- o Soil gas and groundwater sample collection at three residential locations downgradient of the California Linen site at the west end of the California Linen facility. One permanent soil gas well will be installed adjacent to the back of each of the three residences located closest to Linden Street following the county having successfully obtained property access. At least two of these residential structures were reported to have partial basements. Additionally, one groundwater grab sample will be collected in the vicinity of each of the proposed three permanent soil gas wells. The soil gas wells will be sampled following installation, and again 6 months after the initial sampling.
- o Soil gas and groundwater sample collection at the apartment complex located downgradient of Pits 4 and 5 at the California Linen site near the east end of the California Linen facility. Two permanent soil gas wells will be installed adjacent to the back of the apartment building. P&D will obtain offsite property access. Additionally, one groundwater grab sample will be collected in the vicinity of each of the proposed two permanent soil gas wells. The soil gas wells will be sampled following installation, and again 6 months after the initial sampling.

Investigation of the area downgradient of the central portion of the California Linen facility (downgradient of soil gas sample location 60) will be evaluated following resolution of potential offsite upgradient sources to the north of soil gas sample location 51.

Paul

Paul H. King
Professional Geologist

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In a message dated 3/31/2011 10:41:29 Pacific Standard Time, Mark.Detterman@acgov.org writes:

| Hi Don, Hi Paul,

It was good to meet with you both yesterday; it appeared to be a productive meeting. As discussed, and in an effort to move the site forward I wanted to followup to request the discussed updated work plan for the subject site. There are several pre-field work research elements (1 – several potential offsite sources in the upgradient vicinity and 2 - integration of the site and vicinity into the paleochannel network that appears to underlie the vicinity), new field or revised field work elements (1 - soil gas and / or sub-slab vapor intrusion concerns beneath two existing buildings, 2- down gradient vapor intrusion to residents / partial basements, 3 - downgradient groundwater delineation for Pits 4 & 5, and 4 - remaining metals issues), and other needed modifications to the existing work plan that appear appropriate. All elements are intended to be incorporated into a single unifying work plan to help guide the next phase(s) of work at the site.

If you have questions, please let me know.

Best,

Mark Detterman

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Figure 4
 Site Aerial Photograph Showing Dipole Resistivity Investigation
 California Linen Rental Company
 989 41st Street
 Oakland, California

Base Map From:
 JR Associates, April 6, 2011

P&D Environmental, Inc.
 55 Santa Clara Avenue, Suite 240
 Oakland, CA 94610

NOT TO SCALE