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Alameda County  
Environmental Health

[LBermudez@pcandf.com](mailto:LBermudez@pcandf.com)

Direct: 925-884-0860

Fax: 925-905-2746

September 20, 2009

Mr. Paresh Khatari  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Subject: Monitoring Well MW-1 – Redevelopment Report and Work Plan**  
**Site: 76 Station No. 5748/6419**  
**6401 Dublin Boulevard**  
**Dublin, California**  
**Fuel Leak Case No. RO0000459**

Dear Mr. Khatari;

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please call:

Liz Bermudez  
Pacific Convenience & Fuel  
2603 Camino Ramon, Suite 350  
San Ramon, California 94583  
Tel: (925) 884-0860  
Fax: (925) 867-4687  
[lbermudez@pcandf.com](mailto:lbermudez@pcandf.com)

Sincerely,

**PACIFIC CONVENIENCE & FUEL**

**LIZ BERMUDEZ**  
Senior Paralegal  
Division, Unit, or Group

Attachment

September 20, 2010

Mr. Paresh Khatri  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**RE: Monitoring Well MW-1 - Redevelopment Report  
and Work Plan**

76 Station No. 5748/6419  
6401 Dublin Boulevard  
Dublin, California  
Fuel Leak Case No. RO0000459



Dear Mr. Khatri:

Delta Consultants (Delta) is submitting this *Monitoring Well MW-1 - Redevelopment Report and Work Plan* describing the attempted redevelopment of monitoring well MW-1 and a work plan proposing the destruction and replacement of MW-1 at the 76 Station No. 5748/6419 in Dublin, California. The site location is shown on **Figure 1**.

The work was performed as proposed in Delta's *Work Plan - Additional Site Investigation* dated March 15, 2010, and approved by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated July 29, 2010. A copy of the letter is presented as **Attachment A**.

The investigation consisted of the attempted redevelopment of monitoring well MW-1, located south of the current underground storage tanks (USTs) as shown on Figure 2.

**SITE DESCRIPTION**

The subject site is an active 76 station located on the western corner of Dublin Boulevard and Dougherty Road in Dublin, California. The site is bounded to the south by Dublin Boulevard, to the northeast by Dougherty Road, to the west by commercial properties, and to the north by a lot currently under construction. Properties in the immediate site vicinity are used for commercial purposes, including service stations and retail facilities.

Current aboveground site facilities consist of two fuel dispenser islands, a car wash facility, and a station building/convenience store. Two 12,000-gallon gasoline USTs are located in the common pit, east-southeast of the station building. Site features are shown on **Figure 2**.

## **SITE BACKGROUND AND ACTIVITY**

September 1993: Two 10,000-gallon gasoline USTs, one 55-gallon waste-oil UST, and the associated product piping were removed from the site subsequent to confirmation sampling. Groundwater was observed entering the UST excavation. Total petroleum hydrocarbons as gasoline (TPHg) concentrations in the confirmation soil samples beneath the fuel USTs, fuel dispensers, and the product piping ranged from below the laboratory's indicated reporting limits to 9.7 parts per million (ppm). Petroleum hydrocarbon and volatile organic compounds (VOCs) concentrations in confirmation soil samples beneath the waste-oil UST ranged from below the laboratory's indicated reporting limits to 9.7 ppm TPHg, 0.15 ppm benzene, 1.2 ppm toluene, 0.36 ppm ethylbenzene, and 2.4 ppm xylenes and concentrations of metals were considered background levels. Soil sample locations are shown on **Figure 2**.

February 1994: Three on-site monitoring wells (MW-1 through MW-3) were installed. Monitoring well locations are shown on **Figure 2**.

June 1999: Four on-site monitoring wells (MW-4 through MW-7) were installed to a depth of approximately 19 feet below ground surface (bgs). Monitoring well locations are shown on **Figure 2**.

November 1999: A four-inch diameter groundwater observation and extraction well (TPW-1) was installed in the gasoline UST pit backfill to allow purging of methyl tertiary-butyl ether (MTBE) impacted groundwater. The well location is shown on **Figure 2**.

September 2001: Two off-site monitoring wells (MW-8 and MW-9) were installed to a depth of 20 feet bgs. Monitoring well locations are shown on **Figure 2**.

October 2003: Site environmental consulting responsibilities were transferred to TRC.

December 2004: Off-site monitoring wells MW-8 and MW-9 were abandoned due to construction activities planned at those locations by Pin Brothers Fine Homes.

January 12, 2006: On-site monitoring wells MW-2, MW-4, MW-6, and MW-7 were abandoned at the request of the City of Dublin in anticipation of street widening on both Dougherty Road and Dublin Boulevard.

## **SENSITIVE RECEPTORS**

July 3, 2007: TRC completed a sensitive receptor survey for the site. According to California Department of Water Resources (DWR) and the Zone 7 Water Agency records, four water supply wells are located within a one-half mile of the site. Three of the wells were listed by the Zone 7 Water Agency as water supply wells and located approximately 1,940 feet east, 2,175 feet north, and 2,070 feet northwest of the site. One well, listed by the Zone 7 Water Agency, as an abandoned water supply well and is located approximately 2,440 feet west-southwest of the site.

Three surface water bodies were identified within a one-half mile of the site. San Ramon Creek is located approximately 2,145 feet northwest of the site, an unnamed canal is located approximately 625 feet southwest of the site, and the Chabot Canal is located approximately 1,650 feet east of the site.

## **FIELD ACTIVITIES**

### **Redevelopment of Monitoring Well MW-1**

On September 14, 2010, Gregg Drilling and Testing (Gregg), under supervision of a Delta field geologist, attempted to redevelop monitoring well MW-1. Gregg began this process by bailing the monitoring well in an attempt to remove the obstruction, sediment, in the bottom of the well. However, when doing so, Gregg immediately began removing #2/12 sand filter pack from the well at a depth of 9 feet below the top of the casing. Therefore, it was determined that the well screen had been compromised and the well would need to be properly destroyed and replaced.

## **PROPOSED ACTIVITIES**

### **Permitting, Off-Site Access, Utility Notification, and Borehole Clearance**

Before commencing field activities, Delta will prepare a Health and Safety Plan in accordance with state and federal requirements.

Permits will be obtained from the Zone 7 Water Agency for the destruction and replacement of monitoring well MW-1.

Prior to drilling, Underground Service Alert (USA) will be notified as required by law and a private utility locator will be employed to clear the proposed boring locations for underground utilities. In addition, an air- or water-knife will be used to clear the boring location to a depth of five feet bgs prior to well destruction and replacement activities.

### **Monitoring Well Destruction**

Prior to the destruction of monitoring well MW-1, the well box and the surrounding concrete will be removed using a jackhammer. The space around the monitoring well will be cleared using an air-knife to a depth of five feet bgs unless utilities are encountered or known to be present. The monitoring well will be destroyed by over-drilling to a depth of one foot below the constructed depth of 19 feet bgs using a truck mounted drill-rig equipped with 10-inch outside diameter hollow-stem augers. Subsequent to over-drilling, the boring will be converted to a groundwater monitoring well. If utilities are encountered or known to be present, above or below ground, in the vicinity of the monitoring well that make it unsafe for over-drilling, the monitoring well will be abandoned by pressure grouting using neat cement. Pressure grouting will consist of attaching a hose from the cement mixer directly to the top of the monitoring well casing and pumping neat cement into the monitoring well, under pressure (a minimum of 25 pounds per square inch (psi)), for five minutes or pumping refusal. In addition, the top of the monitoring well casing will be removed to a depth of five feet bgs if it can be done safely without potentially damaging utilities in the vicinity of the monitoring well. The space created by removing the well box will be backfilled with concrete or asphalt to match the surrounding conditions.

## **Monitoring Well Installation**

If the monitoring well requires pressure grouting due to the presence of utilities, the replacement well will be installed in a boring advanced adjacent to the destroyed well. The location of the monitoring well will be determined in the field based on surrounding utilities. The proposed monitoring well location will be cleared to a depth of five feet bgs using an air- or water-knife. The boring will be advanced to a minimum depth of five feet below first encountered groundwater, anticipated to be at approximately eight feet bgs using a truck mounted drill-rig equipped with 8-inch diameter hollow-stem augers. Soil samples collected at five foot intervals and from just above first water will be logged using the Unified Soil Classification System (USCS) for lithologic interpretation and field screened for the presence of volatile organic compounds by headspace analysis using a pre-calibrated photo ionization detector (PID). The soil sample exhibiting the highest PID reading from the boring as well as the soil sample collected from just above first water will be submitted for analysis. A chain-of-custody will accompany the samples during transportation to the laboratory. The collected soil samples will be analyzed for TPHg by the California LUFT Method and benzene, toluene, ethylbenzene, and total xylenes (BTEX), MTBE, and ethanol by Environmental Protection Agency (EPA) Method 8260.

If the replacement monitoring well is installed in the same boring as the recently destroyed monitoring well (over drilling), the replacement monitoring well will be constructed by installing a 4-inch diameter schedule 40 polyvinyl chloride (PVC) well casing with a screened interval to be determined in the field, based on first encountered groundwater. If the replacement monitoring well is installed in a separate boring (due to pressure grouting), the monitoring well will be constructed by installing a 2-inch diameter schedule 40 PVC well casing with a screened interval to be determined in the field, based on first encountered groundwater. The screen interval will correspond with the depth at which first water is encountered with at least five feet of screen below the first encountered groundwater. The perforation size in the screen interval will be 0.020-inch. A filter pack consisting of RMC Lonestar # 2/12 Sand or equivalent will be installed into the annular space and extend approximately one foot above the top of the screen interval.

A one foot thick bentonite seal will be placed on top of the filter pack. The remainder of the annular space will be filled with neat cement and the monitoring well will be fitted with a locking cap and encased in a traffic-rated protective vault placed at existing ground level.

## **Well Development, Monitoring, and Sampling**

The monitoring well will be developed a minimum of 72 hours after it has been constructed. A minimum of 10 casing volumes of groundwater will be removed from the monitoring well during the development process.

The monitoring well will be sampled a minimum of 48 hours after it has been developed, and will be incorporated into a quarterly sampling schedule.

Groundwater samples collected for analysis from monitoring well MW-1R will be analyzed for TPHg by the California LUFT Method and BTEX, MTBE, and ethanol by EPA Method 8260.

## **Wellhead Survey**

Following the completion of the newly installed monitoring well, a California licensed surveyor will survey the northing and easting of the monitoring well using Datum NGVD29 or NAD 88. The monitoring well elevations will be surveyed relative to mean sea level, with an accuracy of +/- 0.01 foot. A global positioning system (GPS) will also be used to survey in the latitude and longitude of the monitoring well to be uploaded into California's Geo Tracker database system. The survey of the monitoring well location will be to sub-meter accuracy.

## **Disposal of Drill Cuttings and Wastewater**

Drill cuttings and decontamination water generated during investigation activities will be placed into properly labeled 55-gallon Department of Transportation (DOT) approved steel drums and temporarily stored on the station property. Samples of the drill cuttings, decontamination wastewater and well development water will be collected, properly labeled and placed on ice for submittal to a California-certified laboratory and will be analyzed for TPHg by the California LUFT Method, BTEX and MTBE by EPA Method 8260, and total lead by EPA Method 6010. A chain-of-custody will accompany the samples during transportation to the laboratory. Subsequent to receiving the laboratory analytical results, the drummed drill cuttings, well development water, and decontamination wastewater will be profiled, transported, and disposed of at an approved facility.

## **Reporting**

Following completion of the field work and receipt of analytical results, a site investigation report will be prepared and submitted within 60 days. The report will present the details of the boring activities including copies of boring permits, details of disposal activities, copies of disposal documents, and copies of soil and groundwater laboratory reports. In the report, Delta will also provide recommendations for the development of a remedial action plan at the site. Required electronic submittals will be uploaded to the State Geotracker database.



## Remarks/Signatures

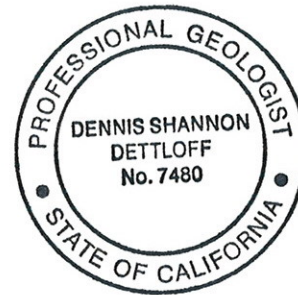
The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report will be performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

If you have any questions regarding this project, please contact Dennis Dettloff at (916) 503-1261.

Sincerely,  
**DELTA CONSULTANTS**



Dennis S. Dettloff, P.G.  
Senior Project Manger  
California Registered Geologist No. 7480



## Figures

- Figure 1 - Site Location Map
- Figure 2 - Site Plan

## Attachment

- Attachment A - ACHCSA Letter dated July 29, 2010

## Figures



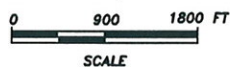
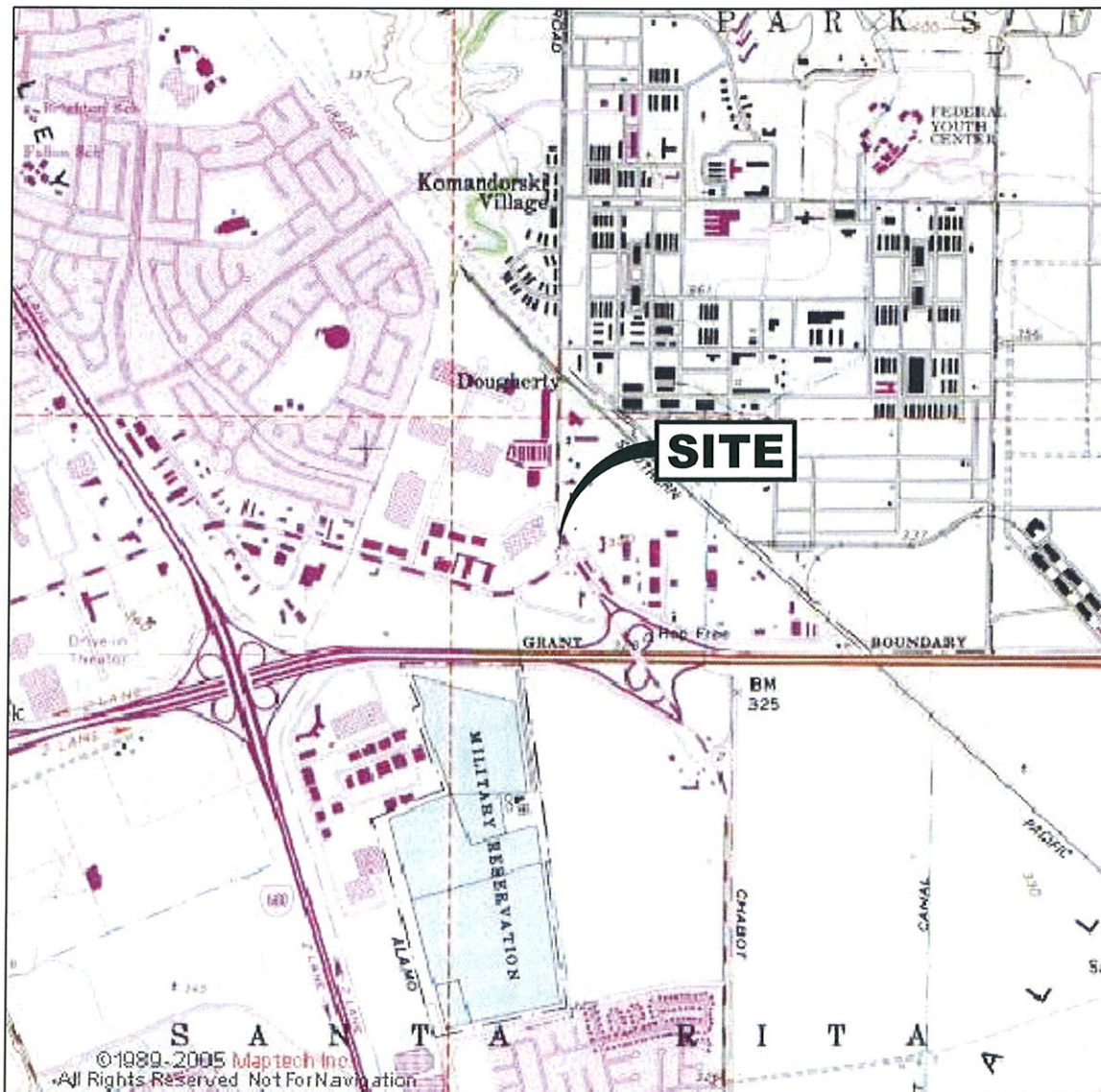


FIGURE 1

SITE LOCATION MAP

76 STATION NO. 5748 / 6419  
6401 DUBLIN BOULEVARD  
DUBLIN, CALIFORNIA

PROJECT NO. C105748	DRAWN BY DR/JH 03/12/10
FILE NO. 5748-SiteLocator	PREPARED BY JH
REVISION NO.	REVIEWED BY DD





**Attachment A**

***ACHCSA Letter  
Dated  
July 29, 2010***

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY  
ALEX BRISCOE, Director



ENVIRONMENTAL HEALTH DEPARTMENT  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

July 29, 2010

Terry Grayson (*Sent via E-mail to: [Terry.L.Grayson@contractor.conocophillips.com](mailto:Terry.L.Grayson@contractor.conocophillips.com)*)  
ConocoPhillips  
76 Broadway  
Sacramento, CA 95818

Liz Bermudez (*Sent via E-mail to: [LBermudez@pcandf.com](mailto:LBermudez@pcandf.com)*)  
Pacific Convenience & Fuel  
2603 Camino Ramon, Suite 350  
San Ramon, CA 94583

Subject: Fuel Leak Case No. RO0000459 and GeoTracker Global ID T0600101443, UNOCAL #6419, 6401 Dublin Boulevard, Dublin, CA 94568

Dear Mr. Grayson and Ms. Bermudez:

Thank you for the recently submitted document entitled, "Work Plan Addendum," dated March 15, 2010, which was prepared by Delta Consultants (Delta) for the subject site. Alameda County Environmental Health (ACEH) staff has reviewed the case file including the above-mentioned work plan for the above-referenced site. Delta proposes to install three cone penetration test (CPT) borings to assess the vertical and lateral extent of contamination on and off-site. In addition, Delta proposes to re-develop monitoring well MW-1 to determine whether this well can be utilized or will need to be abandoned and replaced.

ACEH generally concurs with the proposed scope of work and requests that you perform the proposed work, and send us the technical reports described below.

**NOTIFICATION OF FIELDWORK ACTIVITIES**

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork.

**TECHNICAL REPORT REQUEST**

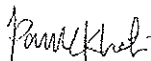
Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

Mr. Grayson and Ms. Bermudez  
RO0000459  
July 29, 2010, Page 2

- **October 25, 2010** – Soil and Water Investigation Report
- **Due within 30 Days of Sampling** – Semi-annual Monitoring Report (3<sup>rd</sup> Quarter 2010)
- **Due within 30 Days of Sampling** – Semi-annual Monitoring Report (1<sup>st</sup> Quarter 2011)

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 777-2478 or send me an electronic mail message at [paresh.khatri@acgov.org](mailto:paresh.khatri@acgov.org).

Sincerely,



Digitally signed by Paresh Khatri  
DN: cn=Paresh Khatri, o=Alameda  
County Environmental Health,  
ou=Local Oversight Program,  
email=Paresh.Khatri@acgov.org,  
c=US  
Date: 2010.07.29 17:21:59 -0700

Paresh C. Khatri  
Hazardous Materials Specialist

Enclosure: Responsible Party(ies) Legal Requirements/Obligations  
ACEH Electronic Report Upload (ftp) Instructions

cc: Tony Perini, Delta Environmental, 312 Piercy Road, San Jose, CA 95138 (*Sent via E-mail to:*  
[TPerini@deltaenv.com](mailto:TPerini@deltaenv.com))  
R. Lee Dooley, Delta Environmental, 312 Piercy Road, San Jose, CA 95138  
Cheryl Dizon (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA  
94551 (*Sent via E-mail to:* [cdizon@zone7water.com](mailto:cdizon@zone7water.com))  
Donna Drogos, ACEH (*Sent via E-mail to:* [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org))  
Paresh Khatri, ACEH (*Sent via E-mail to:* [paresh.khatri@acgov.org](mailto:paresh.khatri@acgov.org))  
GeoTracker  
File

## Responsible Party(ies) Legal Requirements/Obligations

### REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/electronic\\_submittal/report\\_rqmts.shtml](http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml)).

### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>REVISION DATE:</b> July 20, 2010
	<b>ISSUE DATE:</b> July 5, 2005
	<b>PREVIOUS REVISIONS:</b> October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

## REQUIREMENTS

- Please **do not** submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:  
RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

## Submission Instructions

- 1) Obtain User Name and Password:
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org)
  - b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.