

October 5, 2011

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

RECEIVED

1:59 pm, Oct 10, 2011

Alameda County
Environmental Health

Subject: Site Investigation Report
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

Sincerely,

PACIFIC CONVENIENCE & FUEL



LIZ BERMUDEZ
Senior Paralegal
Division, Unit, or Group

Attachment

Site Investigation Report

76 Station No. 5748

6401 Dublin Blvd.

Dublin, CA

Alameda County LOP

No. RO0000459

Regional Water Quality Control Board -

San Francisco Bay, Case No.01-1568

GeoTracker Global ID No. T0600101443

Antea Group Project No. I42705748

October 5, 2011

Prepared for:

Mr. Paresh Khatri

Hazardous Material Specialist

Alameda County Environmental Health

1131 Harbor Bay Parkway

Suite 250

Alameda, CA 94502

Prepared by:

Antea™ Group

11050 White Rock Road

Suite 110

Rancho Cordova, CA 95670

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1.0 INTRODUCTION

Antea Group (formally Delta Consultants) has prepared this site investigation report describing the advancement of two cone penetration test (CPT) borings down-gradient of monitoring well MW-5 as approved by Alameda County Health Care Services Agency (ACHCSA) in a letter dated June 17, 2011. A copy of the letter is presented as **Appendix A**.

1.1 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, and to the northwest and southwest by a shopping center and parking lot. Properties in the immediate site vicinity are commercial, including service stations and retail facilities.

Current aboveground site facilities consist of two dispenser islands, a car wash, and a station building/convenience store. Two 12,000-gallon gasoline underground storage tanks (USTs) are located in the common pit, east of the station building (**Figures 1 and 2**).

1.2 Previous Assessment

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. Concentrations of petroleum hydrocarbons in confirmation soil samples beneath the fuel USTs were non-detect to low. Petroleum hydrocarbon and volatile organic compounds (VOCs) concentrations in confirmation soil samples beneath the waste-oil UST were non-detect to low, and concentrations of metals were considered background levels. Petroleum hydrocarbon and lead concentrations in confirmation soil samples from the dispenser islands were non-detect, and low, respectively. Petroleum hydrocarbon and lead concentrations in confirmation soil samples from the piping trenches were non-detect, and low, respectively.

February 1994: Three on-site monitoring wells (MW-1 through MW-3) were installed.

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).

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 MTBE impacted groundwater.

September 2001: Two off-site monitoring wells (MW-8 and MW-9) were installed to a depth of 20 feet bgs.

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

December 2004: Off-site monitoring wells MW-8 and MW-9 were destroyed 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 destroyed at the request of the City of Dublin in anticipation of street widening on both Dougherty Road and Dublin Boulevard.

December 21, 2010: On-site monitoring well MW-1 was drilled out and replaced with monitoring well MW-1R. The monitoring well was installed to a total depth of 20 feet bgs.

1.3 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 one-half mile of the site. Three of the wells are listed by the Zone 7 Water Agency as water supply wells and are located approximately 1,940 feet east, 2,175 feet north, and 2,070 feet northwest of the site. One well is 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 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.

2.0 SITE GEOLOGY AND HYDROGEOLOGY

The site is underlain by Pleistocene alluvial deposits and Miocene to Pliocene sedimentary rock described as marine and nonmarine conglomerate, sandstone and siltstone as well as basalt and limestone.

Based on soils observed during soil boring activities at the site, the site is underlain by silt with sand, clay, clay with sand, sand, and gravelly sand. Fine grain material such as clay and silt extend from just below ground surface to depths of 32 feet bgs, with lenses of sand and silty sand. A layer of sand is located at approximately 32 to 34 feet bgs and extends to 40 feet bgs. A lense of sandy silt and clay is located at approximately 36 feet bgs. First encountered groundwater ranges in depth from 33 feet bgs to 40 feet bgs depending on subsurface conditions.

3.0 SOIL BORING ACTIVITIES

3.1 Permitting, Utility Notification, and Borehole Clearance

Before commencing field activities Antea Group prepared a Health and Safety Plan in accordance with state and federal requirements for use during investigation activities. Drilling permits were obtained for the soil boring advancement from the Zone 7 Water Agency and an encroachment permit was obtained from the City of Dublin Public Works (**Appendix B**). Prior to drilling, Underground Service Alert (USA) was notified, as required by law, and a private utility locator was employed to clear the boring locations for underground utilities. In addition, an air-knife was used to clear each boring location to a depth of 5 feet bgs prior to borehole advancement.

3.2 CPT Advancement

On August 8 through 12, 2011, Antea Group supervised the advancement of two (2) CPT borings (CPT-1 and CPT-2). Cascade Drilling, L.P. (Cascade) under the supervision of an Antea Group geologist advanced the soil borings using a CPT direct push drill rig. A total of five (5) boreholes were cleared at each location using an air-knife and or hand auger prior to CPT advancement. Subsequent to the air-knife activities, one borehole at each location was advanced for lithologic assessment, one for the collection of soil samples, and the remaining boreholes were advanced for the collection of groundwater samples. A grab-groundwater sample was collected from the CPT-1 boring at a depth of 40 feet bgs and from CPT-2 at a depth of 33 feet bgs. The work plan called for three grab-groundwater samples to be collected from each boring. Only one water bearing unit was identified in each boring, therefore additional grab-groundwater samples were not collected. Soil samples were collected from the CPT-1 boring at depths of 15, 35, and 40 feet bgs and from the CPT-2 boring at depths of 22, 31, and 40 feet bgs. Soil samples were field screened for the presence of volatile organic compounds by headspace analysis using a pre-

calibrated photo ionization detector (PID). The borings were backfilled with neat cement and capped with hot patch asphalt. A copy of the boring logs is presented as **Appendix C**.

3.3 Soil Sampling

Soil samples retained for analysis were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by the California LUFT Method; benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), and ethanol by EPA Method 8260; and total lead by EPA Method 6010. The soil analytical results are presented in **Table 1**. The soil samples were submitted with chain-of-custody documentation to Kiff Analytical, LLC. (Kiff), a State of California, Environmental Laboratory Accreditation Program (ELAP) certified laboratory (Certification No. 08263CA). The complete analytical report is presented as **Appendix D**

3.4 Grab-Groundwater Sampling

Grab-groundwater samples were collected from each boring using a peristaltic pump. The groundwater samples were analyzed for TPHg by the California LUFT Method, BTEX, MTBE, and ethanol by EPA Method 8260. The grab-groundwater analytical results are presented in **Table 2**. The groundwater samples were submitted with chain-of-custody documentation to Kiff, a State of California, ELAP certified laboratory (Certification No. 08263CA). The complete analytical report is presented as **Appendix D**

3.6 Quality Assurance / Quality Control

Antea Group's QA/QC measures included a detailed QA/QC data validation check of the Kiff analytical reports for the August 2011 site investigation event. Antea Group's laboratory data validation checklist and the Pace analytical report are presented as **Appendix D**.

| | |
|--|--------------------------------|
| Laboratory QA/QC Performed: | Yes (validated by Antea Group) |
| Laboratory Data Qualifiers: | Yes – one qualifier* |
| Are the data valid for their intended purpose? | Yes, the data are valid |

* Matrix spike and matrix spike duplicate recovery exceeded QC limits. Batch accepted based on laboratory control sample recovery.

Based on a review of the laboratory's analytical reports, including their QA/QC procedures and those implemented by Antea Group, we conclude that the laboratory data obtained during this site investigation are valid for their intended purpose.

3.7 Disposal of Drill Cuttings and Wastewater

Drill cuttings generated during investigation activities were placed into properly labeled 55-gallon Department of Transportation (DOT) approved steel drums. Samples of the drill cuttings were collected, properly labeled, placed on ice, and submitted to a State of California, ELAP certified laboratory for analysis of TPHg by the CA LUFT Method, BTEX and MTBE by EPA Method 8260, and total lead by EPA Method 6010. Chain-of-custody documentation accompanied the samples during transportation to the laboratory. The generated waste has been removed from the site and is waiting to be disposed of at an approved waste facility.

4.0 RESULTS OF THE INVESTIGATION

4.1 Soil Analytical Results

Analytical results from the soil samples collected during the soil boring advancement indicated MTBE concentrations ranging from 0.0059 milligrams per kilogram (mg/kg) (CPT-2d31) to 0.01 mg/kg (CPT-1d15) and lead concentrations ranging from 2.7 mg/kg (CPT-1d35) to 5.3 mg/kg (CPT-2d22). The soil analytical results are presented in **Table 1**. A copy of the laboratory report, chain-of-custody documentation, and a laboratory validation sheet are presented as **Appendix D**.

4.2 Grab-Groundwater Analytical Results

Analytical results from the grab-groundwater samples collected during the soil boring advancement did not report any constituents above the laboratory's indicated reporting limits. The groundwater analytical results are presented in **Table 2**. A copy of the laboratory report, chain-of-custody documentation, and a laboratory validation check lists are presented as **Appendix D**.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the data obtained during this investigation, it does not appear that the petroleum hydrocarbon and MTBE impacted groundwater from the site is migrating off-site. At this time further investigation does not appear to be warranted based on site conditions. Based on current site conditions, it appears that the extent of the petroleum hydrocarbon and MTBE plume have been adequately assessed, there is no risk to human health, and therefore recommends that this site be closed pending the destruction of the three (site) monitoring wells.

6.0 REMARKS

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

Prepared by:

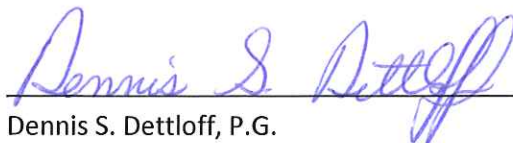


Date: 10-5-11

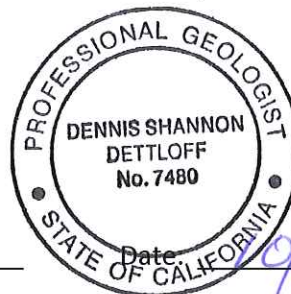
Edward T. Weyrens, G.I.T.
Staff Geologist

Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:



Dennis S. Dettloff, P.G.
Project Manager
California Registered Professional Geologist No. 7480



Figures

- Figure 1 Site Location Map
- Figure 2 Site Plan

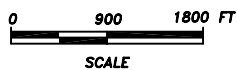
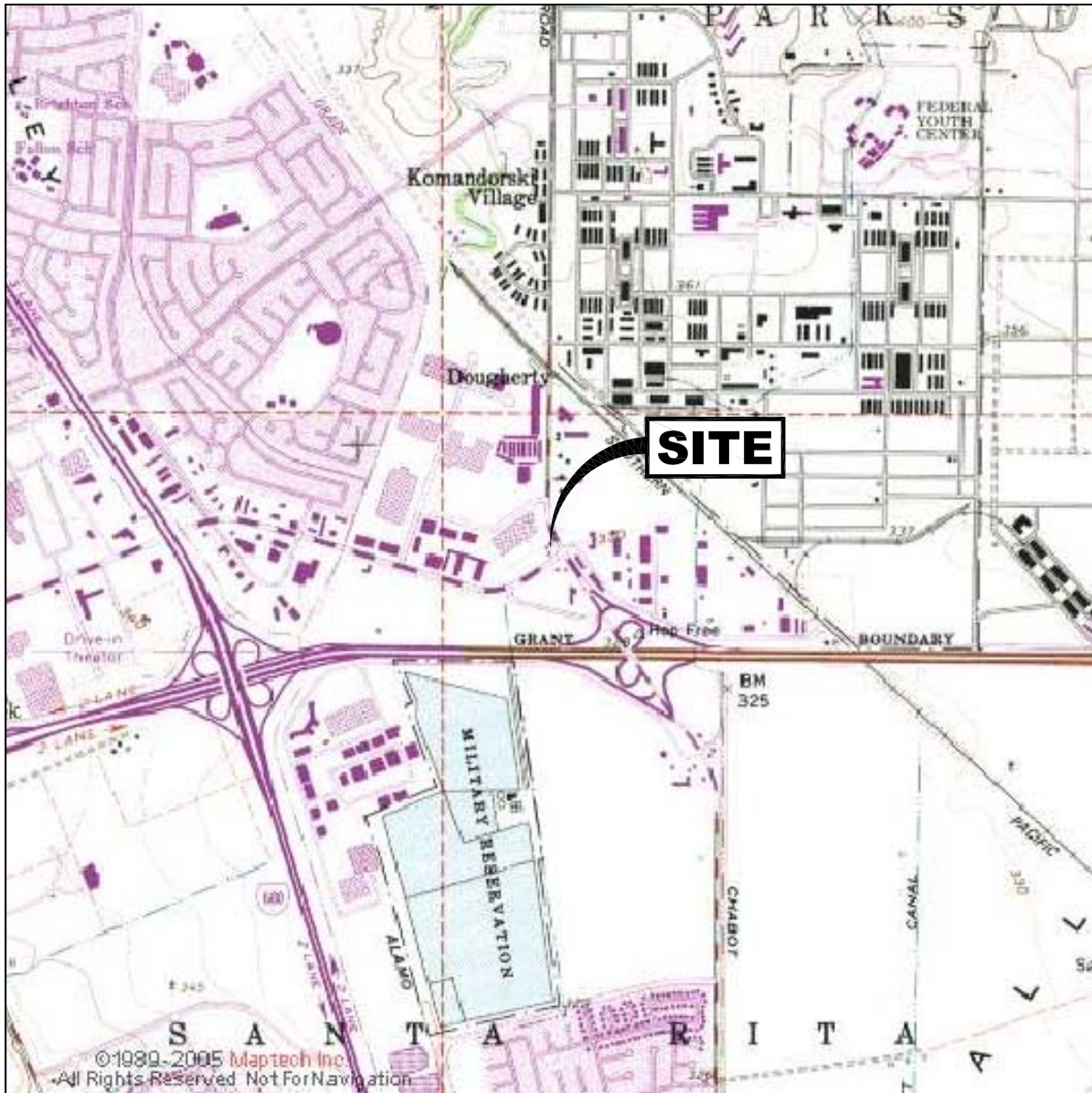


FIGURE 1

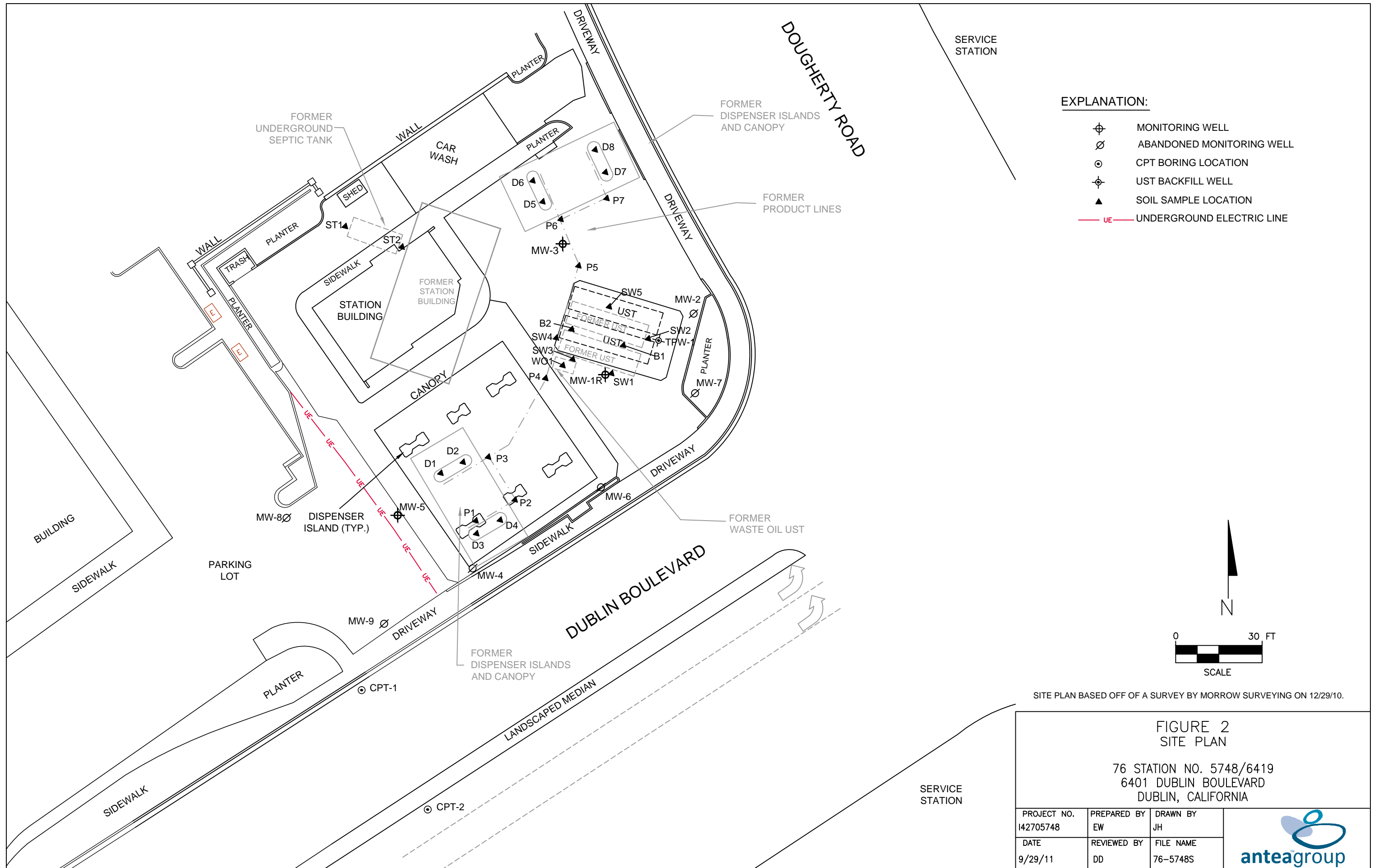
SITE LOCATION MAP

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

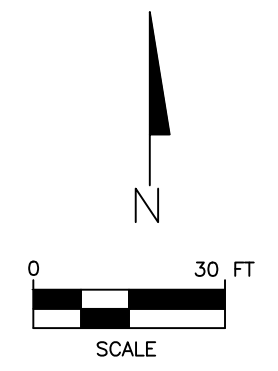
| | |
|------------------------------|-----------------------|
| PROJECT NO. C105748 | DRAWN BY JH 2/2/11 |
| FILE NO. 5748-SiteLocator | PREPARED BY JH |
| REVISION NO. | REVIEWED BY DD |



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, DUBLIN (1998) QUADRANGLE




- EXPLANATION:**
- ⊕ MONITORING WELL
 - ⊘ ABANDONED MONITORING WELL
 - ⊙ CPT BORING LOCATION
 - ⊕ UST BACKFILL WELL
 - ▲ SOIL SAMPLE LOCATION
 - UE — UNDERGROUND ELECTRIC LINE



SITE PLAN BASED OFF OF A SURVEY BY MORROW SURVEYING ON 12/29/10.

FIGURE 2
SITE PLAN

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

| | | | |
|--------------------------|-------------------|-----------------------|---|
| PROJECT NO. 142705748 | PREPARED BY EW | DRAWN BY JH |  |
| DATE 9/29/11 | REVIEWED BY DD | FILE NAME 76-5748S | |

Tables

| | |
|---------|----------------------------------|
| Table 1 | Soil Analytical Results |
| Table 2 | Grab-Groundwater Analytical Data |

Table 1

SOIL ANALYTICAL RESULTS
76 Station No. 5748
6401 Dublin Boulevard, Dublin, California

| Sample ID | Date | Sample Depth (feet) | TPHg (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | MTBE (mg/kg) | Ethanol (mg/kg) | Lead (mg/kg) |
|-----------|-----------|---------------------|--------------|-----------------|-----------------|-----------------------|-----------------------|---------------|-----------------|--------------|
| CPT-1d15 | 8/10/2011 | 15 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | 0.01 | <0.05 | 4.7 |
| CPT-1d35 | 8/11/2011 | 35 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.05 | 2.7 |
| CPT-1d40 | 8/11/2011 | 40 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.05 | 3 |
| CPT-2d22 | 8/12/2011 | 22 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.05 | 5.3 |
| CPT-2d31 | 8/12/2011 | 31 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0059 | <0.05 | 4.3 |
| CPT-2d40 | 8/12/2011 | 40 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0074 | <0.05 | 4.1 |

Notes:

TPHg= total petroleum hydrocarbons as gasoline by CA LUFT
 BTEX = benzene, toluene, ethyl-benzene, total xylenes by EPA Method 8260
 MTBE = methyl tertiary butyl ether by EPA Method 8260
 mg/kg = milligrams per kilogram
 < = Below the laboratory's indicated reporting limit
Bold = Above the laboratory's indicated reporting limit
 EPA = US Environmental Protection Agency

Table 2

GRAB-GROUNDWATER ANALYTICAL RESULTS

76 Station No. 5748

6401 Dublin Boulevard, Dublin, California

| Sample ID | Date | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Ethanol (µg/L) |
|------------------|------------------|----------------|-------------------|-------------------|-------------------------|-------------------------|----------------|-------------------|
| CPT-1d40W | 8/10/2011 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |
| CPT-2d33W | 8/12/2011 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 |

Notes:

TPHg = total petroleum hydrocarbons as gasoline by CA LUFT
 BTEX = benzene, toluene, ethyl-benzene, total xylenes by EPA Method 8260
 MTBE = Methyl t-butyl Ether by EPA Method 8260
 µg/L = micrograms per liter
 < = Below the laboratory's indicated reporting limit
Bold = Above the laboratory's indicated reporting limit
 EPA = US Environmental Protection Agency

Appendix A

Alameda County Health Care Services Agency Letter

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

June 17, 2011

Bill Borgh (Sent via E-mail to: Bill.Borgh@conocophillips.com)
ConocoPhillips
76 Broadway
Sacramento, CA 95818

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

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

Dear Mr. Borgh and Ms. Bermudez:

Thank you for the recently submitted document entitled, "Site Investigation Report and Work Plan," dated February 3, 2011, which was prepared by anteagroup (formerly Delta) for the subject site. Alameda County Environmental Health (ACEH) staff has reviewed the case file including the above-mentioned report and work plan for the above-referenced site. anteagroup proposes to install two CPT borings to an approximately depth of 40 feet bgs and to collect soil samples from CPT borings and groundwater samples from the first, second, and third water-bearing zones from separate borings located in the vicinity of the CPTs.

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. Borgh and Ms. Bermudéz
RO0000459
June 17, 2011, Page 2

- **September 9, 2011** – Soil and Water Investigation Report
- **Due within 30 Days of Sampling** – Semi-annual Monitoring Report (3rd Quarter 2011)
- **Due within 30 Days of Sampling** – Semi-annual Monitoring Report (1st Quarter 2012)

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.

Sincerely,



Digitally signed by Paresh C. Khatri
DN: cn=Paresh C. Khatri, o=Alameda
County Environmental Health
Department, ou,
email=paresh.khatri@acgov.org,
c=US
Date: 2011.06.17 09:04:03 -0700'

Paresh C. Khatri
Sr. Hazardous Materials Specialist

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

cc: Dennis Dettloff, antea group, 11050 White Rock Road, Suite 110, Rancho Cordova,
CA 95670 (Sent via E-mail to: DDettloff@deltaenv.com)
Cheryl Dizon (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA
94551 (Sent via E-mail to: cdizon@zone7water.com)
Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Paresh Khatri, ACEH (Sent via E-mail to: 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).

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.

| | |
|---|--|
| Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) | REVISION DATE: July 20, 2010 |
| | ISSUE DATE: July 5, 2005 |
| | PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010 |
| SECTION: Miscellaneous Administrative Topics & Procedures | SUBJECT: 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
 - 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 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.

Appendix B

Boring and Encroachment Permits



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 6401 Dublin Blvd.
Dublin, CA 94568

PERMIT NUMBER 2011075
WELL NUMBER _____
APN 941-2831-001-02

Coordinates Source Google Earth ft. Accuracy _____ ft.
LAT: 37° 42' 17" ft. LONG: 121° 54' 36" ft.
APN 941-2831-001-02

PERMIT CONDITIONS (Circled Permit Requirements Apply)

CLIENT Name Anten Group
Address 11050 White Rock Rd. Suite 110 Phone 916-503-1277
City Rancho Cordova Zip 95670

- A. GENERAL
 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original **Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.**
 3. Permit is void if project not begun within 90 days of approval date.
 4. Notify Zone 7 at least 24 hours before the start of work.

APPLICANT Name Ed Weyrens
Email ed.weyrens@antengroup.com Fax 916-638-8385
Address 11050 White Rock Rd. Suite 110 Phone 916-503-1277
City Rancho Cordova Zip 95670

- B. WATER SUPPLY WELLS
 1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:
Well Construction _____ Geotechnical Investigation _____
Well Destruction _____ Contamination Investigation
Cathodic Protection _____ Other _____

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.

PROPOSED WELL USE:
Domestic _____ Irrigation _____
Municipal _____ Remediation _____
Industrial _____ Groundwater Monitoring _____
Dewatering _____ Other _____

- D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:
Mud Rotary _____ Air Rotary _____ Hollow Stem Auger _____
Cable Tool _____ Direct Push _____ Other CPT

- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLING COMPANY Cascade Drilling
DRILLER'S LICENSE NO. 938110

- F. WELL DESTRUCTION. See attached.

WELL SPECIFICATIONS:
Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

- G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results.**

SOIL BORINGS:
Number of Borings 2 Maximum _____
Hole Diameter 3 in. Depth 40 ft.

ESTIMATED STARTING DATE August 8, 2011
ESTIMATED COMPLETION DATE August 11, 2011

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [Signature] Date 6-17-11

Approved [Signature] Date 8/4/11
Wyman Hong

ATTACH SITE PLAN OR SKETCH



CITY OF DUBLIN
Public Works

1121502-1 0006 08/03/2011 002 24

Permit Real Time 003687 \$245.00

Permit No.: **PWEN-2011-00068**

Application Date: **08/03/2011**

Issue Date: **08/03/2011**

Permit Type: **PW ENCROACHMENT PERMIT**

Inspection Requests Require 24 Hour Notice

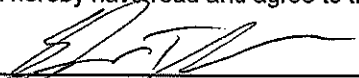
BLD (925) 833-6620 FIRE (925) 833-6606 PUBLIC WORKS (925) 833-6630

| | | | |
|----------------------|--|------------------------|----------------|
| Site Address: | | Parcel / APN: | |
| Owner: | CITY OF DUBLIN - PUBLIC WORKS | Phone: | (925) 833-6630 |
| Address: | 100 CIVIC PLZ DUBLIN CA 94568-2658 | Fax: | (925) 829-9248 |
| Contractor: | ANTEA GROUP | Phone: | (916) 503-1261 |
| Address: | 11050 WHITE ROCK RD SUITE 110 RANCHO CORDOVA, CA 95670 | Fax: | (916) 638-8385 |
| Contact: | DENNIS DETTLOFF | Lic. Exp. Date: | 09/30/2011 |
| | | Business Lic#: | BL-106399 |
| | | Phone: | (916) 503-1261 |
| Description: | LOCATION: Dublin Boulevard / Dougherty - 6401 Dublin Blvd JOB: Advance two soil borings (shown on attached location map). Work schedule for Monday, August 8th through Thursday, August 11th. <i>Bus pull out to be accessible at all times.</i> CONDITIONS: All lane closures shall comply with City and Caltrans Standards. Lane closures permitted from 9:00 AM to 3:30 PM. | | |

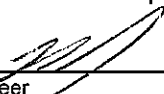
| SUPPLEMENTAL INFORMATION: | |
|---------------------------|----------------------|
| PERMIT FEE | 10 |
| TRENCH SQUARE FEET | 12 |
| # OF LINEAR FEET (TRENCH) | 6 |
| ASPHALT SQUARE FOOTAGE | 12 |
| TEMP STREET/LANE CLOSURE | Y |
| SURETY BOND AMOUNT | 500 |
| PW INSPECTOR | ROEHL- (925)766-1152 |

| FEES: | | | |
|------------------|-------|-----------------------------|---------------------------|
| ENCROACHMENT FEE | 10.00 | ADDITIONAL ENCROACHMENT FEE | 235.00 |
| | | | TOTAL FEES: 245.00 |

I hereby have read and agree to the City of Dublin provisions and conditions outlined in this permit:



Signature of Permittee

 8-03-11

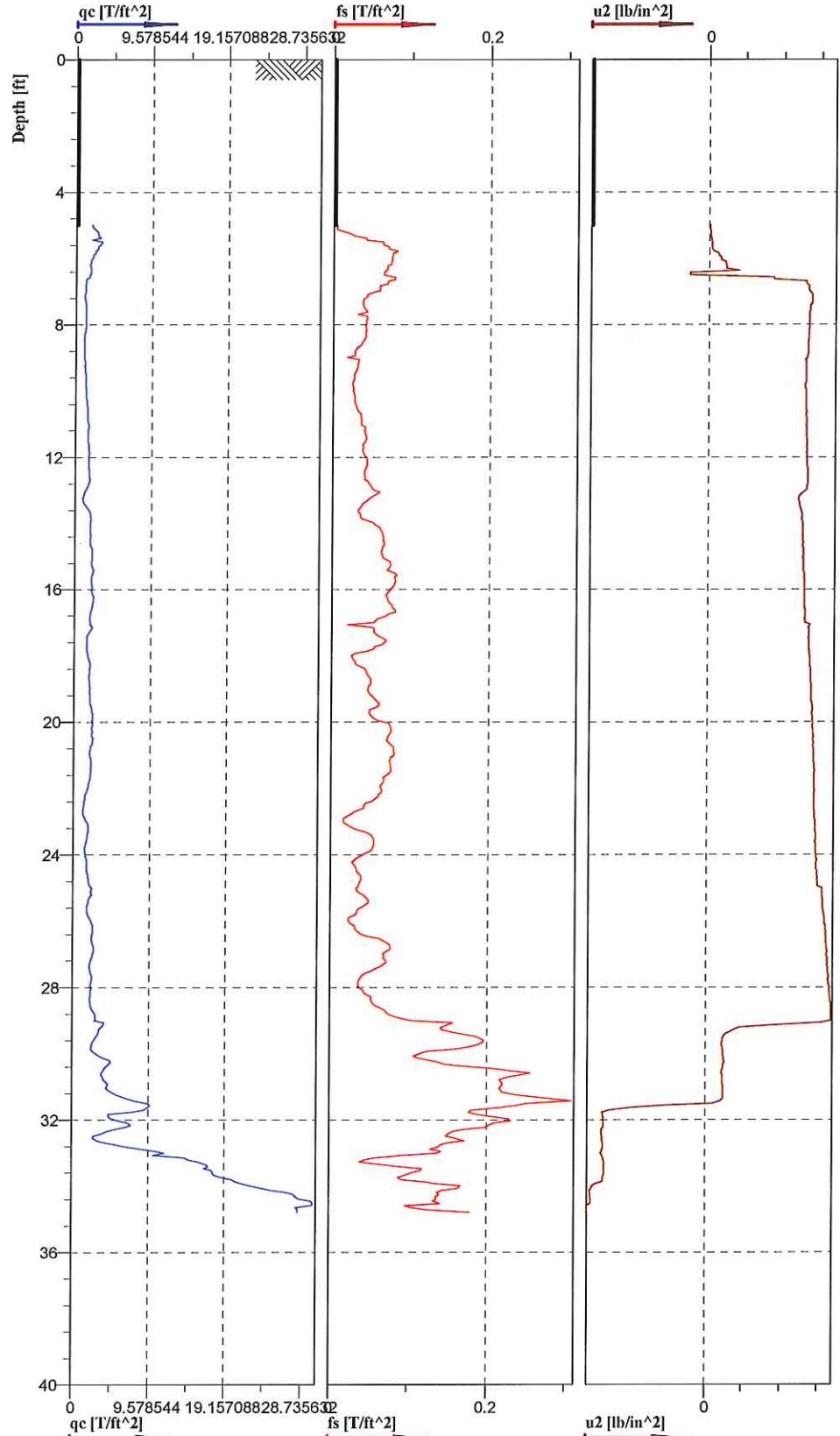
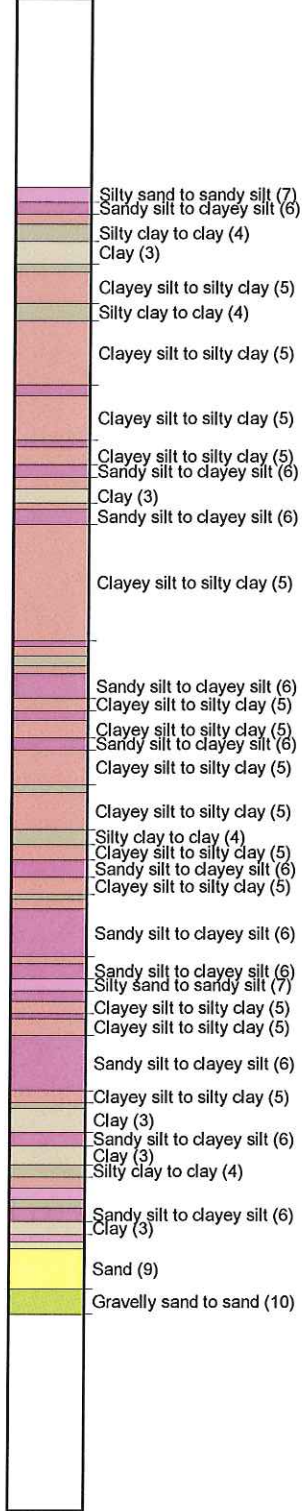
City Engineer

This permit may be revoked at any time at the option of the Director of Public Works, If permittee fails to comply with or violate any City Ordinance, City Standard, safety regulations or any condition of the issuance of the permit.

Appendix C

Boring Logs

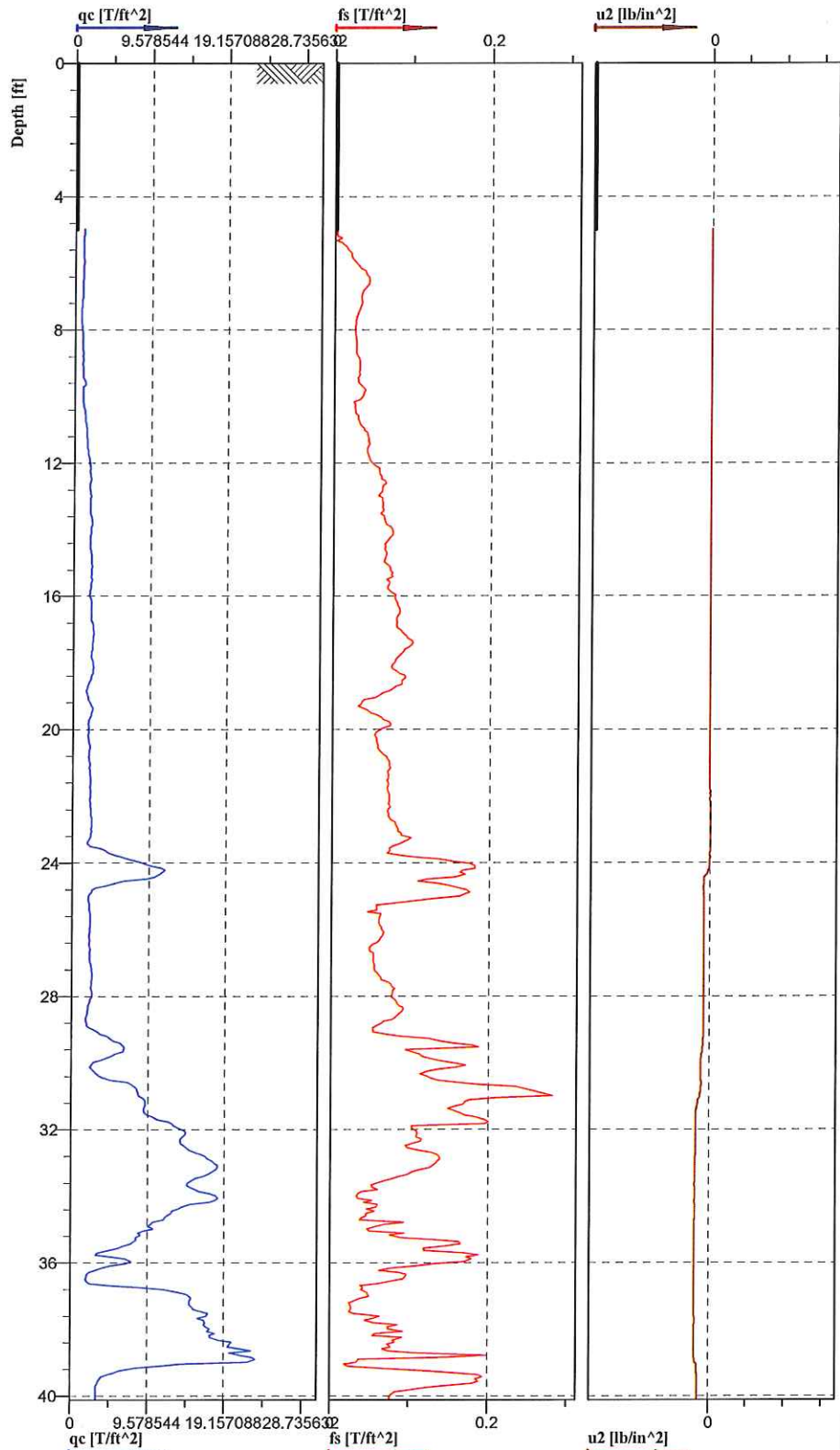
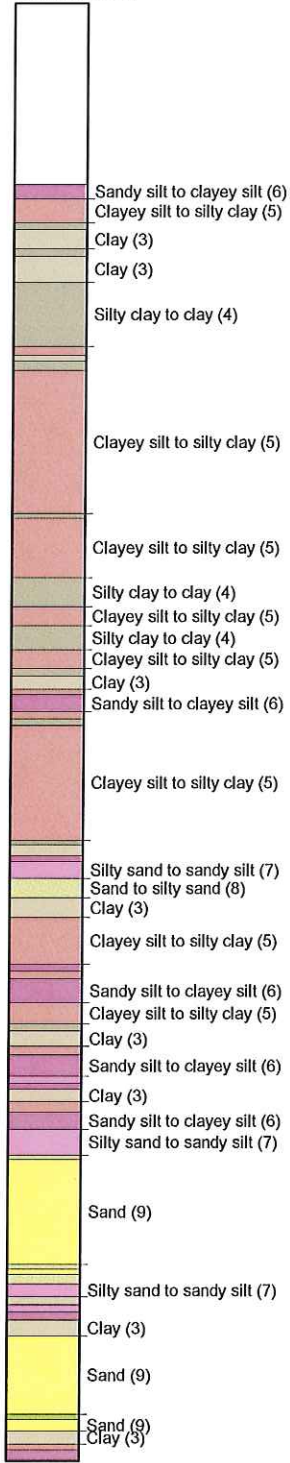
Classification by
Robertson 1986



Cone No: 4280
Tip area [cm²]: 10
Sleeve area [cm²]: 150

| | | | |
|----------------------|----------------------------------|---------------------|---------------|
| Location: Dublin, CA | Position: X: 0.00 ft, Y: 0.00 ft | Ground level: 0.00 | Test no: CPT1 |
| Project ID: | Client: Antea Group | Date: 8/10/2011 | Scale: 1 : 61 |
| Project: S11154 | Page: 1/1 | Fig: | |
| | | File: CPT1Graph.cpd | |

Classification by
Robertson 1986



Cone No: 4280
Tip area [cm²]: 10
Sleeve area [cm²]: 150

| | | | |
|----------------------------|-------------------------------------|-----------------------|------------------|
| Location: Dublin, CA | Position: X: 0.00 ft, Y: 0.00 ft | Ground level: 0.00 | Test no: CT2 |
| Project ID: S111054.01B | Client: Antea Group | Date: 8/11/2011 | Scale: 1 : 61 |
| Project: S111054.01B | | Page: 1/1 | Fig: CPT2.cpt |
| | | File: | |

Appendix D

Certified Laboratory Analytical Reports and Data Validation Forms

Is the Data Set Valid?

(circle)

Yes / No

Preservation Temperature

(if Known): 2.9 °C

Antea™ Group Laboratory Data Validation Sheet

Project/Client: 76 station No. 5748 / COP-ELT

Project #: I42705748

Date of Validation: 8/31/11 Date of Analysis: 8/17 - 8/19

Sample Date: 8/10 - 8/12 Completed By: ETW

Signature: [Signature]

Circle
or
Highlight

Yes / No

(below)

Analytical Lab Used and Report # (if any): Kiff # 78450

1. Were the analyses the ones requested?
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?
5. Were Laboratory blanks performed, if so, were they non-detect?
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m³, etc.)
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approximately 80-120%, depending on the analyte)?
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?
11. Were Relative Percent Difference values within the acceptable range (i.e. ±25%)?

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

Yes / No

If any answer is no, explain why and what corrective action was taken (use additional sheet(s), as necessary:

9. MS/MSD outside range for Ethylbenzene associated w/ CPT-222
Lab control sample was within range.



Laboratory Results

Dennis Dettloff
Antea Group
11050 White Rock Rd. Suite 110
Rancho Cordova, CA 95670

Subject : 6 Soil Samples and 2 Water Samples
Project Name : 76 Station No. 5748
Project Number : I42705748

Dear Mr. Dettloff,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 78450

Date : 08/19/2011

Subject : 6 Soil Samples and 2 Water Samples
Project Name : 76 Station No. 5748
Project Number : I42705748

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with sample CPT-2d 22 for the analyte Ethylbenzene were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Project Name : **76 Station No. 5748**

Project Number : **I42705748**

Sample : **CPT-Id 40W**

Matrix : Water

Lab Number : 78450-01

Sample Date :08/10/2011

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 18:14 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 18:14 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 18:14 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 18:14 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 18:14 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 08/18/11 18:14 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 08/18/11 18:14 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | % Recovery | EPA 8260B | 08/18/11 18:14 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 08/18/11 18:14 |

Project Name : **76 Station No. 5748**

Project Number : **I42705748**

Sample : **CPT-Id 15**

Matrix : Soil

Lab Number : 78450-02

Sample Date :08/10/2011

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Lead | 4.7 | 0.50 | mg/Kg | EPA 6010B | 08/17/11 15:10 |
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:40 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:40 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:40 |
| Total Xylenes | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:40 |
| Methyl-t-butyl ether (MTBE) | 0.010 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:40 |
| Ethanol | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 08/19/11 13:40 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 08/19/11 13:40 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | % Recovery | EPA 8260B | 08/19/11 13:40 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 08/19/11 13:40 |

Project Name : **76 Station No. 5748**

Project Number : **I42705748**

Sample : **CPT-Id 35**

Matrix : Soil

Lab Number : 78450-03

Sample Date :08/11/2011

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Lead | 2.7 | 0.50 | mg/Kg | EPA 6010B | 08/17/11 15:15 |
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:14 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:14 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:14 |
| Total Xylenes | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:14 |
| Methyl-t-butyl ether (MTBE) | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:14 |
| Ethanol | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 08/19/11 14:14 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 08/19/11 14:14 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | % Recovery | EPA 8260B | 08/19/11 14:14 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 08/19/11 14:14 |



Report Number : 78450

Date : 08/19/2011

Project Name : **76 Station No. 5748**

Project Number : **I42705748**

Sample : **CPT-Id 40**

Matrix : Soil

Lab Number : 78450-04

Sample Date :08/11/2011

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Lead | 3.0 | 0.50 | mg/Kg | EPA 6010B | 08/17/11 15:20 |
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:03 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:03 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:03 |
| Total Xylenes | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:03 |
| Methyl-t-butyl ether (MTBE) | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 13:03 |
| Ethanol | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 08/19/11 13:03 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 08/19/11 13:03 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | % Recovery | EPA 8260B | 08/19/11 13:03 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 08/19/11 13:03 |

Project Name : **76 Station No. 5748**

Project Number : **I42705748**

Sample : **CPT-2d 33W**

Matrix : Water

Lab Number : 78450-05

Sample Date :08/12/2011

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 16:04 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 16:04 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 16:04 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 16:04 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/11 16:04 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 08/18/11 16:04 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 08/18/11 16:04 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % Recovery | EPA 8260B | 08/18/11 16:04 |
| Toluene - d8 (Surr) | 98.4 | | % Recovery | EPA 8260B | 08/18/11 16:04 |

Project Name : **76 Station No. 5748**

Project Number : **I42705748**

Sample : **CPT-2d 22**

Matrix : Soil

Lab Number : 78450-06

Sample Date :08/12/2011

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Lead | 5.3 | 0.50 | mg/Kg | EPA 6010B | 08/17/11 15:31 |
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 04:41 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 04:41 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 04:36 |
| Total Xylenes | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 04:41 |
| Methyl-t-butyl ether (MTBE) | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 04:41 |
| Ethanol | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 08/19/11 04:41 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 08/19/11 04:41 |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | % Recovery | EPA 8260B | 08/19/11 04:41 |
| Toluene - d8 (Surr) | 96.4 | | % Recovery | EPA 8260B | 08/19/11 04:41 |

Project Name : **76 Station No. 5748**

Project Number : **I42705748**

Sample : **CPT-2d 31**

Matrix : Soil

Lab Number : 78450-07

Sample Date :08/12/2011

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Lead | 4.3 | 0.50 | mg/Kg | EPA 6010B | 08/17/11 15:36 |
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:54 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:54 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:54 |
| Total Xylenes | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:54 |
| Methyl-t-butyl ether (MTBE) | 0.0059 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 14:54 |
| Ethanol | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 08/19/11 14:54 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 08/19/11 14:54 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | % Recovery | EPA 8260B | 08/19/11 14:54 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 08/19/11 14:54 |

Project Name : **76 Station No. 5748**

Project Number : **I42705748**

Sample : **CPT-2d 40**

Matrix : Soil

Lab Number : 78450-08

Sample Date :08/12/2011

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Lead | 4.1 | 0.50 | mg/Kg | EPA 6010B | 08/17/11 15:41 |
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 15:28 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 15:28 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 15:28 |
| Total Xylenes | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 15:28 |
| Methyl-t-butyl ether (MTBE) | 0.0074 | 0.0050 | mg/Kg | EPA 8260B | 08/19/11 15:28 |
| Ethanol | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 08/19/11 15:28 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 08/19/11 15:28 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | % Recovery | EPA 8260B | 08/19/11 15:28 |
| Toluene - d8 (Surr) | 101 | | % Recovery | EPA 8260B | 08/19/11 15:28 |

Report Number : 78450

Date : 08/19/2011

QC Report : Method Blank Data

Project Name : **76 Station No. 5748**

Project Number : **I42705748**

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|------------------------------|----------------|------------------------|-------|-----------------|---------------|
| Lead | < 0.50 | 0.50 | mg/Kg | EPA 6010B | 08/17/2011 |
| Benzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/2011 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/2011 |
| Toluene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/2011 |
| Total Xylenes | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/2011 |
| Ethanol | < 0.050 | 0.050 | mg/Kg | EPA 8260B | 08/19/2011 |
| Methyl-t-butyl ether (MTBE) | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/19/2011 |
| TPH as Gasoline | < 1.0 | 1.0 | mg/Kg | EPA 8260B | 08/19/2011 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | % | EPA 8260B | 08/19/2011 |
| Toluene - d8 (Surr) | 96.7 | | % | EPA 8260B | 08/19/2011 |
| Ethylbenzene | < 0.0050 | 0.0050 | mg/Kg | EPA 8260B | 08/18/2011 |
| Benzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/2011 |
| Ethylbenzene | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/2011 |
| Toluene | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/2011 |
| Total Xylenes | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/2011 |
| Ethanol | < 5.0 | 5.0 | ug/L | EPA 8260B | 08/18/2011 |
| Methyl-t-butyl ether (MTBE) | < 0.50 | 0.50 | ug/L | EPA 8260B | 08/18/2011 |
| TPH as Gasoline | < 50 | 50 | ug/L | EPA 8260B | 08/18/2011 |
| 1,2-Dichloroethane-d4 (Surr) | 99.9 | | % | EPA 8260B | 08/18/2011 |
| Toluene - d8 (Surr) | 99.3 | | % | EPA 8260B | 08/18/2011 |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------|----------------|------------------------|-------|-----------------|---------------|
|-----------|----------------|------------------------|-------|-----------------|---------------|

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 76 Station No. 5748

Project Number : I42705748

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Recov. Limit | Relative Percent Diff. Limit |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|----------------------------|------------------------------|
| Lead | 78454-01 | 4.5 | 50.0 | 50.0 | 45.9 | 44.2 | mg/Kg | EPA 6010B | 8/17/11 | 82.8 | 79.4 | 3.74 | 75-125 | 20 |
| Benzene | 78450-06 | <0.0050 | 0.0366 | 0.0370 | 0.0355 | 0.0360 | mg/Kg | EPA 8260B | 8/19/11 | 97.0 | 97.3 | 0.374 | 67.9-120 | 25 |
| Ethanol | 78450-06 | <0.050 | 0.0913 | 0.0924 | 0.0814 | 0.0746 | mg/Kg | EPA 8260B | 8/19/11 | 89.2 | 80.8 | 9.87 | 37.1-156 | 25 |
| Ethylbenzene | 78450-06 | <0.0050 | 0.0366 | 0.0370 | 0.0364 | 0.0378 | mg/Kg | EPA 8260B | 8/19/11 | 99.5 | 102 | 2.51 | 65.5-127 | 25 |
| Methyl-t-butyl ether | 78450-06 | <0.0050 | 0.0368 | 0.0372 | 0.0351 | 0.0349 | mg/Kg | EPA 8260B | 8/19/11 | 95.4 | 93.8 | 1.66 | 57.0-122 | 25 |
| P + M Xylene | 78450-06 | <0.0050 | 0.0366 | 0.0370 | 0.0335 | 0.0349 | mg/Kg | EPA 8260B | 8/19/11 | 91.6 | 94.4 | 3.00 | 62.5-124 | 25 |
| Toluene | 78450-06 | <0.0050 | 0.0366 | 0.0370 | 0.0338 | 0.0344 | mg/Kg | EPA 8260B | 8/19/11 | 92.3 | 92.8 | 0.554 | 65.7-120 | 25 |
| Ethylbenzene | 78472-01 | <0.0050 | 0.0390 | 0.0388 | 0.0233 | 0.0206 | mg/Kg | EPA 8260B | 8/18/11 | 59.7 | 53.1 | 11.8 | 65.5-127 | 25 |

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 76 Station No. 5748

Project Number : I42705748

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Benzene | 78481-02 | <0.50 | 40.0 | 40.0 | 43.0 | 43.3 | ug/L | EPA 8260B | 8/18/11 | 108 | 108 | 0.572 | 80-120 | 25 |
| Ethanol | 78481-02 | 7.8 | 99.7 | 99.7 | 124 | 133 | ug/L | EPA 8260B | 8/18/11 | 116 | 126 | 7.78 | 55.1-159 | 25 |
| Ethylbenzene | 78481-02 | <0.50 | 40.0 | 40.0 | 43.7 | 42.8 | ug/L | EPA 8260B | 8/18/11 | 109 | 107 | 1.97 | 80-120 | 25 |
| Methyl-t-butyl ether | 78481-02 | <0.50 | 40.2 | 40.2 | 35.3 | 39.7 | ug/L | EPA 8260B | 8/18/11 | 87.8 | 98.8 | 11.8 | 69.7-121 | 25 |
| P + M Xylene | 78481-02 | <0.50 | 40.0 | 40.0 | 43.3 | 42.6 | ug/L | EPA 8260B | 8/18/11 | 108 | 106 | 1.68 | 76.8-120 | 25 |
| Toluene | 78481-02 | <0.50 | 40.0 | 40.0 | 42.9 | 42.3 | ug/L | EPA 8260B | 8/18/11 | 107 | 106 | 1.46 | 80-120 | 25 |

QC Report : Laboratory Control Sample (LCS)

Project Name : 76 Station No. 5748

Project Number : I42705748

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|----------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Lead | 50.0 | mg/Kg | EPA 6010B | 8/17/11 | 97.9 | 85-115 |
| Benzene | 0.0363 | mg/Kg | EPA 8260B | 8/19/11 | 104 | 67.9-120 |
| Ethanol | 0.0905 | mg/Kg | EPA 8260B | 8/19/11 | 95.5 | 37.1-156 |
| Ethylbenzene | 0.0363 | mg/Kg | EPA 8260B | 8/19/11 | 112 | 65.5-127 |
| Methyl-t-butyl ether | 0.0365 | mg/Kg | EPA 8260B | 8/19/11 | 95.9 | 57.0-122 |
| P + M Xylene | 0.0363 | mg/Kg | EPA 8260B | 8/19/11 | 104 | 62.5-124 |
| Toluene | 0.0363 | mg/Kg | EPA 8260B | 8/19/11 | 102 | 65.7-120 |
| Ethylbenzene | 0.0393 | mg/Kg | EPA 8260B | 8/18/11 | 93.9 | 65.5-127 |
| Benzene | 40.0 | ug/L | EPA 8260B | 8/18/11 | 107 | 80-120 |
| Ethanol | 99.7 | ug/L | EPA 8260B | 8/18/11 | 114 | 55.1-159 |
| Ethylbenzene | 40.0 | ug/L | EPA 8260B | 8/18/11 | 105 | 80-120 |
| Methyl-t-butyl ether | 40.2 | ug/L | EPA 8260B | 8/18/11 | 88.2 | 69.7-121 |
| P + M Xylene | 40.0 | ug/L | EPA 8260B | 8/18/11 | 105 | 76.8-120 |
| TPH as Gasoline | 501 | ug/L | EPA 8260B | 8/18/11 | 110 | 70.0-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 8/18/11 | 102 | 80-120 |

SAMPLE RECEIPT CHECKLIST

RECEIVER
LJR
Initials

SRG#: 78450 Date: 081211
Project ID: 76 Station No. 5748
Method of Receipt: Courier Over-the-counter Shipper

COC Inspection

Is COC present? Yes No
Custody seals on shipping container? Intact Broken Not present N/A
Is COC Signed by Relinquisher? Yes No Dated? Yes No
Is sampler name legibly indicated on COC? Yes No
Is analysis or hold requested for all samples? Yes No
Is the turnaround time indicated on COC? Yes No
Is COC free of whiteout and uninitialed cross-outs? Yes No, Whiteout No, Cross-outs

Sample Inspection

Coolant Present: 2.9 Yes No (includes water)
Temperature °C 2.9 Therm. ID# ER-1 Initial LJR Date/Time 081211/1752 N/A
Are there custody seals on sample containers? Intact Broken Not present
Do containers match COC? Yes No No, COC lists absent sample(s) No, Extra sample(s) present
Are there samples matrices other than soil, water, air or carbon? Yes No
Are any sample containers broken, leaking or damaged? Yes No
Are preservatives indicated? Yes, on sample containers Yes, on COC Not indicated N/A
Are preservatives correct for analyses requested? Yes No N/A
Are samples within holding time for analyses requested? Yes No
Are the correct sample containers used for the analyses requested? Yes No
Is there sufficient sample to perform testing? Yes No
Does any sample contain product, have strong odor or are otherwise suspected to be hot? Yes No

Receipt Details

Matrix WA Container type VOA # of containers received 10
Matrix SO Container type SLERVE # of containers received 6
Matrix _____ Container type _____ # of containers received _____
Date and Time Sample Put into Temp Storage Date: 081211 Time: 1755

Quicklog

Are the Sample ID's indicated: On COC On sample container(s) On Both Not indicated
If Sample ID's are listed on both COC and containers, do they all match? Yes No N/A
Is the Project ID indicated: On COC On sample container(s) On Both Not indicated
If project ID is listed on both COC and containers, do they all match? Yes No N/A
Are the sample collection dates indicated: On COC On sample container(s) On Both Not indicated
If collection dates are listed on both COC and containers, do they all match? Yes No N/A
Are the sample collection times indicated: On COC On sample container(s) On Both Not indicated
If collection times are listed on both COC and containers, do they all match? Yes No N/A

COMMENTS:

Bubbles in sample 01, all VOAs. Sample 78450-05
has "CPT-2d" on sample container label. yes 081511 1015