ConocoPhillips

76 Broadway
Sacramento, California 95818

January 31, 2011

Ms. Barbara Jakub
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: **Monitoring Well Installation and Quarterly Status Report**
76 Station no. 5781
3535 Pierson Street
Oakland, CA

Dear Ms. Jakub,

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 contact me at (916) 558-7612.

Sincerely,

Bill Borgh

Bill Borgh
Site Manager – Risk Management and Remediation

Attachment

Monitoring Well Installation and Quarterly Status Report

76 Station No. 5781 - 3535 Pierson Street, Oakland, California

Antea Group Project No. C105781071
January 31, 2011

Prepared for:
ConocoPhillips
76 Broadway
Sacramento, CA
95818

Prepared by:
Antea™Group
11050 White Rock Road Suite 110
Rancho Cordova, CA 95670

Inogen Environmental Alliance

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January 31, 2011

Ms. Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

RE: ***Monitoring Well Installation and Quarterly Status Report***
76 Service Station No. 5781
3535 Pierson Street
Oakland, California

Dear Ms. Jakub,

Due to global rebranding, as of January 5, 2011 Delta Consultants has become Antea Group. Any reports submitted prior to this date will still be referenced as Delta reports.

On behalf of ConocoPhillips Company (COP), Antea™Group (Antea) is submitting this *Monitoring Well Installation and Quarterly Status Report* for 76 service station No. 5781 in Oakland, California. The activities detailed in this report were performed in accordance with Delta's July 30, 2010 *Assessment Report, Site Conceptual Model Update, and Additional Assessment Workplan,* approved by the Alameda County Environmental Health Agency (ACEH) in a letter to COP, dated October 5, 2010- Attachment A.

Further, Antea Group is forwarding the *Groundwater Monitoring Report- October through December 2010* - (Attachment B).

Please contact Jan Wagoner at (916) 503-1275 if you have any questions or comments related to this report.

Sincerely,

ANTEA™GROUP

Jan Wagoner
Project Manager

Enclosure:

Cc: Bill Borgh – COP (electronic copy only)
Mr. Keith Matthews, Oakland Fire Department

Inogen®

MONITORING WELL INSTALLATION AND QUARTERLY STATUS REPORT

76 SERVICE STATION NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

January 31, 2011

Prepared for:

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

The material and data in this report were prepared under the supervision and direction of the undersigned.

ANTEA™GROUP

Caitlin Morgan
Staff Professional

Jan Wagoner
Project Manager

James B. Barnard
California Registered Professional Geologist No. 7478

INTRODUCTION

On behalf of ConocoPhillips, Antea™Group formerly Delta Consultants (Delta), has prepared this report for the 76 Service Station No. 5781 (site) located at 3535 Pierson Street, Oakland, California (Figure 1). The purpose of this report is to provide a summary of soil, groundwater, and storm drain (air) sampling activities; along with a discussion of the analytical results obtained at the 76 service station property.

In November 2010, four groundwater monitoring wells MW-6, MW-7, MW-8 and MW-9 were installed in accordance with Delta's July 30, 2010 *Assessment Report, Site Conceptual Model Update, and Additional Assessment Workplan*, submitted to the Alameda County Environmental Health Care Services Agency (ACEH) and approved in a letter to COP dated October 5, 2010 (Attachment A). A site plan identifying the locations of the current groundwater monitoring wells, utilities and station improvements is presented as Figure 2.

Routine fourth quarter groundwater monitoring and sampling activities were performed December 21, 2010 by TRC. As such, inaugural sampling of the newly installed (four) wells occurred during the fourth quarter sampling event, making for a total of seven gauged and sampled wells during the fourth quarter. TRC's *Groundwater Monitoring Report-October through December 2010*, dated January 14, 2011, is provided as Attachment B.

SITE BACKGROUND AND PREVIOUS ENVIRONMENTAL WORK

1989 Two 10,000- gallon gasoline USTs, one 280-gallon waste oil UST and product piping were removed from the site. Confirmation soil samples collected from the UST pit indicated low residual maximum concentrations of total petroleum hydrocarbons as gasoline (TPHg), benzene, and total oil and grease (TOG). After confirmation soil sampling, approximately 5,000 gallons of groundwater were removed from the UST pit and disposed offsite. A groundwater sample was collected and analyzed after recharge of the UST pit and contained TPHg at 7,900 parts per billion (ppb) and benzene at 850 ppb. Confirmation soil samples collected from the product piping trench indicated low maximum residual concentrations of TPH-G and benzene.

April 1990 Three exploratory borings (MW-1, MW-2, and MW-3) were advanced onsite with the intention that they would be converted into monitoring wells, however no groundwater was encountered down to a depth of 40-50 feet below ground surface (bgs). The borings were backfilled.

July 1990 Two exploratory borings (EB-1, EB-2) were advanced onsite to 34.5 and 38 ft bgs, near the location of the former waste oil UST pit. Groundwater was encountered at 33.5 and 36.7 feet bgs. Groundwater was sampled from both borings, and then the borings were backfilled with neat cement. TPHd was detected only in the in groundwater sample from EB-1 at 6.7 ppb, benzene was detected only in the groundwater sample from EB-1 at 0.61 ppb, toluene (1.5 ppb) and xylenes (1.0 ppb) were detected at equal concentrations in groundwater from both borings.

December 1990 A 2" diameter monitoring well was installed onsite (MW-A) to a depth of 45 feet. Groundwater was encountered at 33 feet bgs during the well installation. The well was incorporated into (first) a semi-annual sampling and (subsequent) annual sampling schedule. Groundwater samples were analyzed for TPHg,

TPHd, Benzene, Toluene, Ethyl-benzene, Total Xylenes (BTEX), and methyl t-butyl ether (MTBE).

October 2003 Site environmental consulting responsibilities were transferred to TRC. TRC performed a baseline site assessment, advancing five soil borings onsite (SB-1 through SB-5). Four of the soil borings were clustered around the location of the dispenser islands and USTs, and one near the waste oil tank. Maximum boring depth ranged from 24 ft to 54 ft bgs. Groundwater was encountered at depths ranging from 19.5 ft to 39 ft bgs in 3 wells, and was not encountered in 2 wells to a total depth of 54 ft. Soil samples collected from the borings indicated up to 1,100 mg/kg of total purgeable petroleum hydrocarbons (TPPH). The only detection from groundwater samples (three borings and MW-A) was lead at 0.18 mg/L.

April 2008 The second generation waste oil tank (WOT) was removed. A total of four soil samples were collected from the WOT cavity (WO1 – WO4). One base sample was collected from beneath the WOT at a depth of 9.0 feet bgs, and three sidewall samples were collected at a depth of either 6.5 or 7.0 feet bg. A fourth sidewall sample, from the southeast wall of the pit, was unable to be collected due to proximity of the station building. A composite soil sample (Composite) was also collected from materials stockpiled during removal and sampling activities. (Delta, 2008)

No petroleum hydrocarbons (including TPHd) or fuel oxygenates, total oil and grease, VOCs, SVOCs, or PCBs were detected in any of the four soil samples, or the composite sample. Samples were also analyzed for CAM 17 metals, and each of the five samples contained arsenic at a concentration above the RWQCB ESL of 1.5 mg/kg (commercial). Concentrations ranged from 3.2 mg/kg to 6.2 mg/kg, and appear to represent background conditions at the site. All other CAM 17 metal detections were below the commercial ESLs set by the RWQCB. (Delta, 2008)

No over-excavation activities were conducted, the WOT was not replaced, and the stockpiled materials were backfilled into the remaining cavity following receipt of laboratory results. (Delta, 2008).

September 24, 2009 Delta submitted the *Workplan for Additional Assessment* to investigate residual fuel and lead concentration in soil and groundwater beneath the site. The workplan was designed to carry out recommendations made in the 2008 Site Conceptual Model, and would allow for the collection of confirmation sample results prior to making a formal Case Closure Request.

February 2010 Delta met Cruz Brothers Utility Locators on-site in preparation for additional site assessment. During routine utility marking activities, Delta and subcontractors identified a pronounced hydrocarbon odor emanating from a storm drain manhole southwest of the fuel USTs in the sidewalk and along Pierson Street.

March 5, 2010 Concerns over the storm drain manhole led to the preparation of an Unauthorized Release Report (URR) submitted by ConocoPhillips to the Alameda County Department of Environmental Health (ACEH). Highest reported PID readings from the manhole were recorded at 495 ppm on February 17, 2010.

March 11th through 12th, 2010 Delta oversaw the advancement of four soil borings: SWC-2, SWD-2, SB-6 and SB-7. Details of the investigation were submitted to ACEH in the

May 7th, 2010 Additional *Assessment Report, Monitoring Well Installation Work Plan and Storm Sewer Repair Comments.*

April 2010 On April 28, 2010 Innovative Construction Solutions (ICS) placed a permanent patch on the portion of the storm drain manhole that had been identified (04/08/10) to be seeping water into the storm drain. Mr. Mike Fahey of the Oakland Fire Department and representatives from Delta and ConocoPhillips were on-site to observe this repair.

June 2010 In response to the March site assessment activities, ACEH prepared a letter to ConocoPhillips, dated May 21, 2010. The letter requested additional investigation and preparation of a Site Conceptual Model Update. On June 3rd & 4th, 2010 Delta proceeded to advance and install two groundwater monitoring wells: MW-4 and MW-5 and advance one additional soil boring: SB-8.

July 2010 Details of the investigation (above) were submitted July 30, 2010 in the *Assessment Report, Site Conceptual Model, and Additional Assessment Work plan.*

SENSITIVE RECEPTORS

The California Department of Water Resources database indicates the presence of four active water wells nearby the site. The four active wells are reported to be located in East Bay Regional Park District land, located approximately 2,193 feet northeast of the site.

SITE GEOLOGY AND HYDROGEOLOGY

The site is underlain by fine-grained silt and clay. The fine-grained soil contains scattered deposits of clayey sand and silty sand.

A site map with cross sections is shown as Figure 3. Geologic cross-sections A-A' through E-E' are shown as Figures 3A through 3E.

During onsite activities, groundwater at the site has been encountered in borings between 15 and 33 feet bgs. Other site borings drilled to similar depths were dry upon completion.

Prior to the fourth quarter, 2010 groundwater flow and gradient had been suspect when compared to the topography in the vicinity of the site. The discrepancy may have been related to different screen intervals for MW-4 and MW-5 (10-20 feet bgs and 15-25 feet bgs, respectively) when compared to previous well MW-A (25-45 feet bgs).

Perched zones of groundwater atop impermeable clayey soil materials may exist across the site, as indicated by the sporadic encountering of groundwater at depths of approximately 33 feet bgs (MW-A, EB-1, EB-2, SB-1, and SB-5). Groundwater may also be confined or semi-confined as indicated by conditions in well MW-A.

FOURTH QUARTER 2010 MONITORING AND SAMPLING

In November 2010, four groundwater monitoring wells: MW-6, MW-7, MW-8 and MW-9 were installed on-site. A total of seven wells now comprise the monitoring well network. All seven wells are scheduled to follow a quarterly sampling schedule until further notice. Prior to the third quarter 2010, groundwater monitoring well MW-A had been on a semi-

annual sampling schedule. A site plan identifying the locations of groundwater monitoring wells is presented as Figure 2.

Fourth quarter sampling activities were performed on December 21, 2010. Depth to groundwater ranged from 10.53 feet below top of casing (TOC) in well MW-9, to 14.43 feet below TOC in well MW-A. Groundwater flow direction and gradient was interpreted as 0.03 feet per foot (ft/ft) to the west. During the previous event (9/29/10) the gradient was interpreted as 0.03 ft/ft to the north. A rose diagram depicting historical groundwater flow directions is provided as Attachment C.

All monitoring and sampling activities for the site during the fourth quarter 2010 were performed by TRC and reviewed and certified by a TRC California Professional Geologist.

All wells were analyzed for total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg), and methanol by Environmental Protection Agency (EPA) method 8015, as well as BTEX, and eight fuel oxygenates [(MTBE, tert-butyl alcohol (TBA), ethylene dibromide (EDB), 1,2 dicholoroethane (1,2-DCA), diisopropyl ether (DIPE), ethyl tert butyl ether (ETBE), tert amyl methyl ether (TAME), and ethanol] by EPA method 8260.

Analytical results from the Fourth Quarter 2010 event are discussed below:

TPHd: TPHd was above laboratory indicated reporting limits in groundwater samples collected from two of the seven wells sampled with a maximum concentration of 11,000 µg/L in MW-5 during the current sampling event. This is a decrease from a maximum concentration of 64,000 µg/L in MW-5 during the previous sampling event (9/29/10).

TPHg: TPHg was above laboratory indicated reporting limits in groundwater samples collected from one of the seven wells sampled with a maximum concentration of 50,000 µg/L in MW-5 during the current sampling event. This is an increase from a maximum concentration 29,000 µg/L in MW-5 during the previous sampling event (9/29/10).

Benzene: Benzene was above laboratory indicated reporting limits in groundwater samples collected from one of the seven wells sampled with a maximum concentration of 81 µg/L in MW-5 during the current sampling event. This is a decrease from a maximum concentration of 220 µg/L in MW-5 during the previous sampling event (9/26/10).

Toluene: Toluene was above laboratory indicated reporting limits in groundwater samples collected from one of the seven wells sampled with a maximum concentration of 4,800 µg/L in MW-5 during the current sampling event. This is an increase from a maximum concentration of 4,100 µg/L in MW-5 during the previous sampling event (9/26/10).

Ethylbenzene: Ethylbenzene was above laboratory indicated reporting limits in groundwater samples collected from one of the three wells sampled with concentration of 2,200 µg/L in MW-5 during the current sampling event. This is a decrease from a maximum concentration of 2,500 µg/L in MW-5 during the previous sampling event.

Total Xylenes: Total Xylenes were above laboratory indicated reporting limits in groundwater samples collected from one of the seven wells sampled with a maximum concentration of 22,000 µg/L in MW-5. This is a decrease from a maximum concentration of 23,000 µg/L in MW-5 during the previous sampling event (9/26/10).

MTBE: MTBE was above laboratory indicated reporting limits in groundwater samples collected from four of the seven wells sampled with a maximum concentration of 32 µg/L in MW-6 during the current sampling event. This is the first sampling event from MW-6. The maximum reported MTBE concentration during the previous sampling event was 52 µg/L in MW-5 (9/29/10). Sample dilution in MW-5, because of hydrocarbon concentrations, raised the reporting limit for MTBE in MW-5 to 50 µg/L.

Other Fuel Oxygenates: TBA, EDB, 1,2-DCA, DIPE, ETBE, TAME, ethanol, and methanol, were all below the laboratory's indicated reporting limits.

A copy of TRC's *Groundwater Monitoring Report – October through December 2010*, dated January 14, 2011 is included as Attachment B.

Remediation is not currently being conducted at the site.

Anticipated first quarter 2011 planned activities include quarterly monitoring and sampling of the groundwater monitoring well network and preparation of a quarterly groundwater monitoring report (by TRC). Antea Group will prepare and submit the quarterly summary report.

SITE ASSESSMENT UPDATE – INSTALLATION OF MW-6, MW-7, MW-8, AND MW-9

On July 30, 2010 Delta submitted the *Assessment Report*, *Site Conceptual Model Update*, *and Additional Assessment Workplan*, which proposed the installation of four on-site groundwater monitoring wells in the vicinity of the existing underground storage tank (UST) and fuel dispenser islands, to determine the presence of residual petroleum hydrocarbon concentrations, and to clarify groundwater flow direction. Additionally, continued storm drain air monitoring was proposed both on, and in vicinity of the site.

The four wells: MW-6, MW-7, MW-8 and MW-9 were installed between November 3rd and 5th 2010. Development and survey of the newly installed wells occurred December 10, 2010. During each event, storm drain air monitoring was also performed.

During the time of the November and December 2010 field activities, work was performed under Delta- Due to global rebranding at the start of 2011; Delta has now become Antea Group. Field activities described herein will continue to reference Delta as the consultant performing work during November and December 2010.

Field activities related to the assessment are summarized in the remainder of this report.

Pre Field Activities

Before commencing field operations, Delta obtained necessary access agreements and prepared a site-specific Health and Safety plan in accordance with state and federal requirements for use during site assessment activities. In addition, drilling permits for the proposed monitoring wells were obtained from the ACPWA, and are included in Attachment D. Prior to drilling, Underground Service Alert (USA) was notified as required

and a private utility locating service visited the site to clear the proposed boring locations for underground utilities. The proposed locations were further cleared by air vacuum to avoid damage to possible underground utilities. Due to proximity to air vents, electrical and water lines, and also the dispenser island canopy, most locations were cleared under variance by COP.

Monitoring Well Installation

On November 3rd and 4th, 2010, Delta oversaw air knifing activities for four soil borings, subsequently converted to monitoring wells MW-6, MW-7, MW-8 and MW-9 (on December 5, 2010). Drilling activities were performed by Cascade Drilling, under oversight of Delta field personnel. The borings converted to groundwater monitoring wells were advanced using hollow stem augers to depths of 20 feet bgs. Delta collected a total of 16 soil samples- Four from each of the (four) on-site boring locations. The location of the monitoring wells and soil sample collection locations are depicted in Figure 2.

Methodology

Soil samples were collected using an 8-inch diameter split spoon sampler equipped with 6-inch long brass sampling liners. Soil samples were logged using the Unified Soil Classification System (USCS) for lithologic interpretation and field screened for the presence of volatile organic compounds using a pre-calibrated PID. Observed groundwater levels, PID readings, soil descriptions, and field observations were recorded on boring logs for the four monitoring wells. These boring logs are presented as Attachment D.

Selected soil samples were submitted for analysis for TPHd by EPA Method 8015M (Silica Gel Treated) and TPHg, BTEX, MTBE, and 8 oxygenates by EPA method 8260B. Samples selected for laboratory analysis were sealed with Teflon sheeting and end-caps, properly labeled and placed on ice pending transportation to a California-certified laboratory and accompanied by appropriate chain-of-custody documentation during transportation to the laboratory. Laboratory reports are included in Attachment E.

With the augers in place, a monitoring well constructed of 2-inch Schedule 40 poly-vinyl chloride (PVC) with a screened interval from 10 feet bgs to 20 feet bgs and utilizing a 0.02-inch slot size was then inserted into the borehole. While the augers were being retracted, #3 sand was continually placed into the borehole to one foot above the screened interval (9 feet bgs). Hydrated bentonite was placed between 9 and 7 feet bgs. Then, using the augers as tremie, neat cement grout was poured into each borehole from seven feet to grade under supervision of an ACEH representative. The groundwater monitoring well was completed at the ground surface by first cutting and excavating a 30-inch by 30-inch square onto the asphalt surface, inserting a COP-approved 12-inch well box and rebar, and filling the remaining portion of the borehole with concrete. The concrete was dyed to match the existing surface. Finally, the PVC well was trimmed to an appropriate length and capped with a sealable, locking monitoring well cap. All down-hole drilling and sampling equipment were of single use or decontaminated between borings utilizing a high-pressure steam cleaner. Well construction details are included on the boring log for each respective well in Attachment D.

Handling of Generated Waste

Drill cuttings generated during well installation activities were placed into properly labeled 55-gallon Department of Transportation (DOT) approved steel drums and stored on-site. These waste materials have been accepted for disposal and were transported to a ConocoPhillips-approved facility on January 26, 2011. Once manifests are received for this disposal, they will be uploaded separately to Geotracker.

Monitoring Well Development and Sampling

Monitoring wells MW-6, MW-7, MW-8 and MW-9 were developed on December 10, 2010, at least 72 hours after the completed well installations. One to three well volumes were purged at each well. A full ten well volumes was not purged due to the low water recovery rate for the wells (approximately 1 gallon per hour). Depth to water in the wells ranged from 12.03 (MW-9) feet to 14.16 (MW-7) feet. Depth to the bottom of the wells was measured to be 19.49 (MW-9) feet to 19.80 feet (MW-6). Well development field logs are included in Attachment G.

Groundwater was sampled from wells MW-6, MW-7, MW-8 and MW-9 on December 21, 2010 by TRC Companies Inc. (TRC) as a fourth quarter 2010 monitoring and sampling event. Results are discussed in the above portion of this report.

Survey of Monitoring Wells

A survey of the four newly installed monitoring wells was performed on December 10, 2010 by Morrow Surveying. Department of Water Resources (DWR) well completion logs were completed by Cascade Drilling, and were forwarded to Ms. Vicky Hamlin of the ACEH for review and submission to the DWR. Location and elevation survey data for the three installed monitoring wells was successfully submitted to the State of California Water Resources Control Board GeoTracker ESI database on January 27, 2011.

STORM DRAIN AIR MONITORING

Delta performed periodic monitoring of PID and LEL readings in storm drains in the vicinity of the site. Initial results of this monitoring were presented under separate cover as part of the SCM update and assessment report. Additional readings were recorded during the November-December Site Assessment Activities, with all readings below the measurements limits of the PID/LEL meter.

SUMMARY OF FINDINGS

Soil borings were advanced to depths of 20 feet bgs. Groundwater was encountered in the borings at various depths ranging from 13.0 feet to 15.0 feet bgs. Soils encountered in the subsurface were predominantly imported fill material consisting of sandy/silty gravel to gravelly sand/silt to the maximum depth explored.

Soil samples were collected from each of the four borings converted to monitoring wells at 5.5-6.0 feet, 10.0-10.5 feet, 15.0-15.5 feet, and 19.5-20.0 feet bgs.

Soil sampling results indicated the following presence for each constituent of concern:

- TPHd was reported above the laboratory's indicated reporting limits in two of the twenty soil samples collected at concentrations ranging from 11.0 mg/kg (MW-6 at 5.5-6.0 feet bgs) to 12 mg/kg (MW-7 at 5.5-6.0 feet bgs).
- MTBE was reported above the laboratory's indicated reporting limits in one of the twenty soil samples at a concentration of 0.02 mg/kg (MW-6 at 19.5-20.0 feet bgs).

TPHg, BTEX, TBA, DIPE, TAME, ETBE, ethanol, and EDB were below the laboratory's indicated reporting limits in all the collected samples from borings MW-6, MW-7, MW-8 and MW-9. Concentrations for soil samples collected during drilling are presented on Table 1.

DISCUSSION AND RECOMMENDATIONS

A site plan identifying locations of historical and current sampling points at the site is presented as Figure 4. Historical soil and grab groundwater tables is presented as Attachment H.

Prior to the second quarter 2010, Delta recommended case closure for the site. Continued monitoring of the one onsite well, (MW-A) showed that historically, petroleum hydrocarbon concentrations in MW-A have been either low or below the laboratory's indicated reporting limits. With the exception of two sampling events (February of 1996 and March of 2001), where TPHd was detected at respective concentrations of 120 µg/L and 131 µg/L, all constituent concentrations detected in MW-A have been below the California Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs). (RWQCB, May 2008).

The Site Conceptual Model dated November 20, 2008 proposed confirmation sampling by advancing a total of four boreholes that would: evaluate the mass of residual impacted soils in vicinity of the former waste oil tank/over excavation limits, evaluate the detection of total oil and grease (TOG) in groundwater from boring SB-5, and evaluate the detection of TPHg in soil boring SB-3. Without agency response, Delta then submitted the September 24, 2009 *Workplan for Additional Assessment*, in order to obtain confirmation samples before making a formal Case Closure Request.

In March 2010 additional assessment confirmed that residual petroleum hydrocarbon concentrations remain on-site. TPHg was reported at 2,500 µg/L in a grab groundwater sample collected from boring SB-6 (near recently installed monitoring well MW-5) indicating the presence of petroleum hydrocarbons in the area southeast of the USTs. TOG was reported in soil samples collected at 10 feet bgs in borings SWC-2 and SWD-2 near the former waste oil USTs at concentrations of 7,700 µg/L and 870 µg/L, respectively. It was noted that samples collected from these borings at 15 feet were at or below the laboratory indicated reporting limits. Also, groundwater samples collected from borings SB-7 and SWC-2 reported TOG levels below laboratory indicated reporting limits.

The identification of petroleum hydrocarbon odors emanating from a storm drain manhole along Pierson Street, combined with the need to further assess the area southwest of the gasoline USTs led to the June 2010 field activities, which included the

installation of groundwater monitoring wells MW-4 and MW-5, and advancement of soil boring SB-8. A utility survey was performed to identify the location and depth of utilities in the vicinity of the service station. Ambient storm drain air monitoring was also initiated.

The addition of two groundwater monitoring wells in June 2010 allowed for the first established gradient and flow direction for the site. After review of monitoring and sampling data, there appeared to be a discrepancy in the interpreted groundwater flow direction and gradient as it was contradictory to surface topography. The discrepancy may have been in part to a difference in screened intervals between the existing well MW-A (25-45 feet bgs), and the newly installed wells (10-20 feet bgs and 15-25 feet bgs, respectively).

Four additional groundwater monitoring wells were thereby installed, to additionally assess groundwater conditions, flow direction and gradient across the site. Anta Group recommends the following based on results of the November-December 2010 Site Assessment Update.

Interpreted groundwater flow from the fourth quarter monitoring event was west at 0.03 ft/ft. Antea Group will review groundwater monitoring data from future monitoring and sampling events to evaluate any changes in this flow direction in gradient over a hydro-geologic cycle.

Results of this assessment indicate petroleum hydrocarbons in soil at the site have been adequately assessed and no additional soil assessment is recommended at this time. This assessment also indicates that petroleum hydrocarbons in water appear to also be assessed, with remaining petroleum hydrocarbon constituents primarily in monitoring well MW-5. With the exception of MW-5, petroleum hydrocarbon concentrations in the remaining wells are at or near laboratory reporting limits. Also limited concentrations of MTBE were reported in the certain remaining wells at the site, with maximum concentrations less than 50 µg/L.

- **Continued M&S Events** - Quarterly monitoring is recommended for at least one hydro-geologic cycle (1 year) through the fourth quarter 2011 to evaluate for consistencies in groundwater flow direction and gradient.

- **Fluid Recovery in MW-5** - To reduce petroleum hydrocarbon concentrations in MW-5, Antea Group proposes to perform a fluid recovery pilot test in this well. Based on limited petroleum hydrocarbon concentrations reported in wells surrounding MW-5, this well appears to be the primary location of remaining petroleum hydrocarbon constituents. Results from well development logs and monitoring and sampling field sheets indicate that groundwater recovers reasonably quickly in MW-5 and fluid recovery from this well may be a potential remedial alternative to reduce petroleum hydrocarbons in groundwater at the site in the vicinity of MW-5.

With ACEH concurrence, Antea Group will prepare a work plan outlining the details of this proposed fluid recovery pilot test.

LIMITATONS

The recommendations contained in this report represent Antea Group'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 Antea Group 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 Group's Client and anyone else specifically listed on this report. Antea Group will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea Group makes no express or implied warranty as to the contents of this report.

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TABLES

Table 1 – Current Soil Analytical Data

FIGURES

Figure 1 – Site Location Map
Figure 2 – Site Plan with Current Sampling Locations
Figure 3 – Site Plan with Cross-Section Locations
Figure 3A – Cross Section A-A'
Figure 3B – Cross Section B-B'
Figure 3C – Cross Section C-C'
Figure 3D – Cross Section D-D'
Figure 3E – Cross Section E-E'
Figure 4 – Site Plan with Current and Historical Sampling Locations

ATTACHMENTS

Attachment A - ACEH Letter Dated October 5, 2010
Attachment B - TRC's Quarterly Monitoring Report- October through December 2010
Attachment C - Rose Diagram
Attachment D - ACPWA Drilling Permit
Attachment E - Boring Logs & Well Construction Details
Attachment F - Laboratory Reports
Attachment G - Well Development Field Logs
Attachment H – Historical Soil and Grab Groundwater Analytical Tables

TABLES

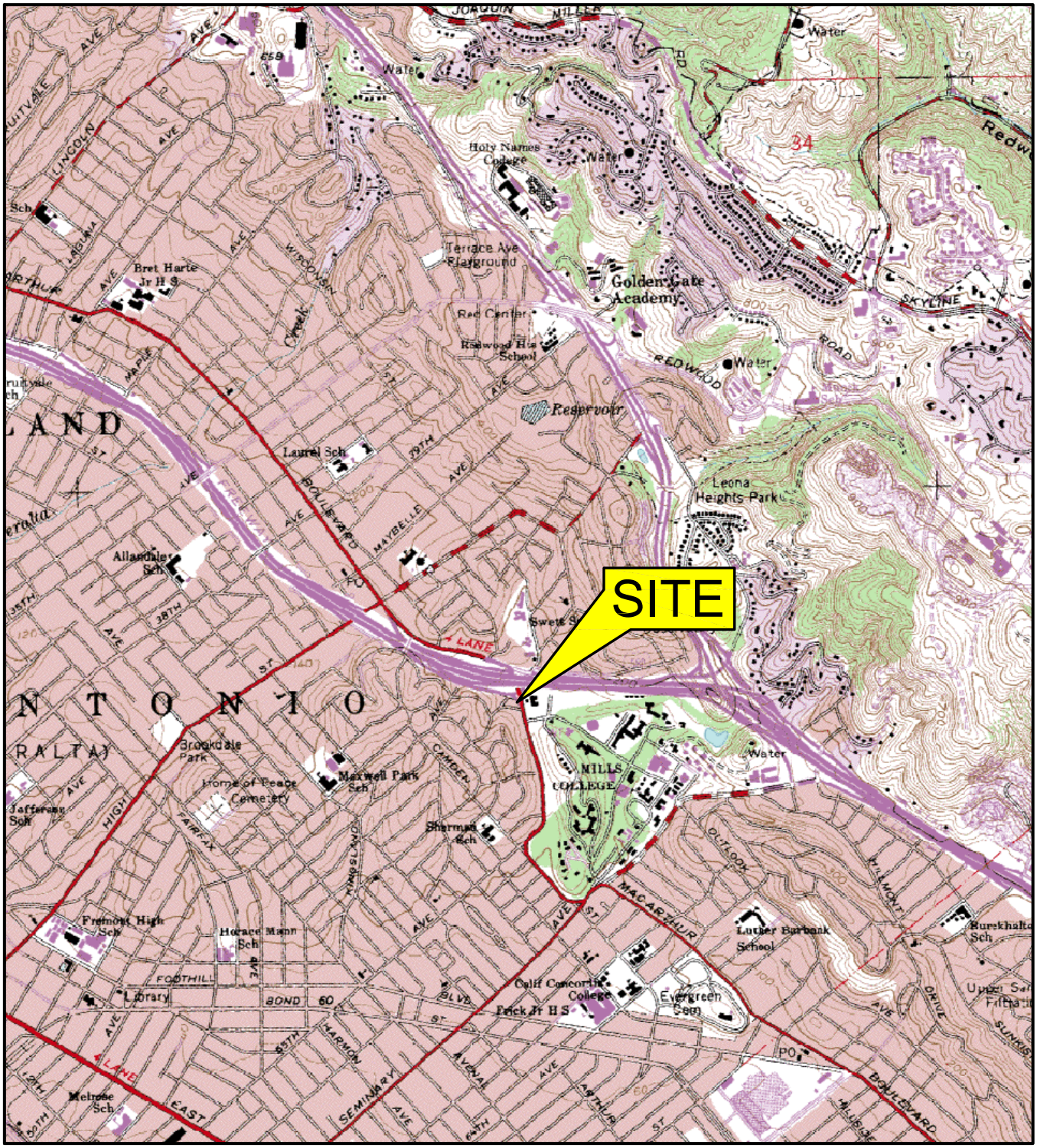
Table 1 –
Current Soil Analytical Data

TABLE 1
Summary of Soil Analytical Results
76 Service Station No. 5781
3535 Pierson Street
Oakland, California

Well ID	Depth (ft)	Date	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	Ethanol (mg/kg)
MW-6@5.5-6	5.5-6	11/5/2010	<1.0	**11**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-6@10-10.5	10-10.5	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-6@15-15.5	15-15.5	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-6@19.5-20	19.5-20	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	**0.02**	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-7@5.5-6	5.5-6	11/5/2010	<1.0	**12**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-7@10-10.5	10-10.5	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-7@15-15.5	15-15.5	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-7@19.5-20	19.5-20	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-8@5.5-6	5.5-6	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-8@10-10.5	10-10.5	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-8@15-15.5	15-15.5	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-8@19.5-20	19.5-20	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-9@5.5-6	5.5-6	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-9@10-10.5	10-10.5	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-9@15-15.5	15-15.5	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
MW-9@19.5-20	19.5-20	11/5/2010	<1.0	<2.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0

FIGURES

Figure 1 –
Site Location Map



OAKLAND EAST QUADRANGLE
CALIFORNIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

QUADRANGLE LOCATION

North

0 2000

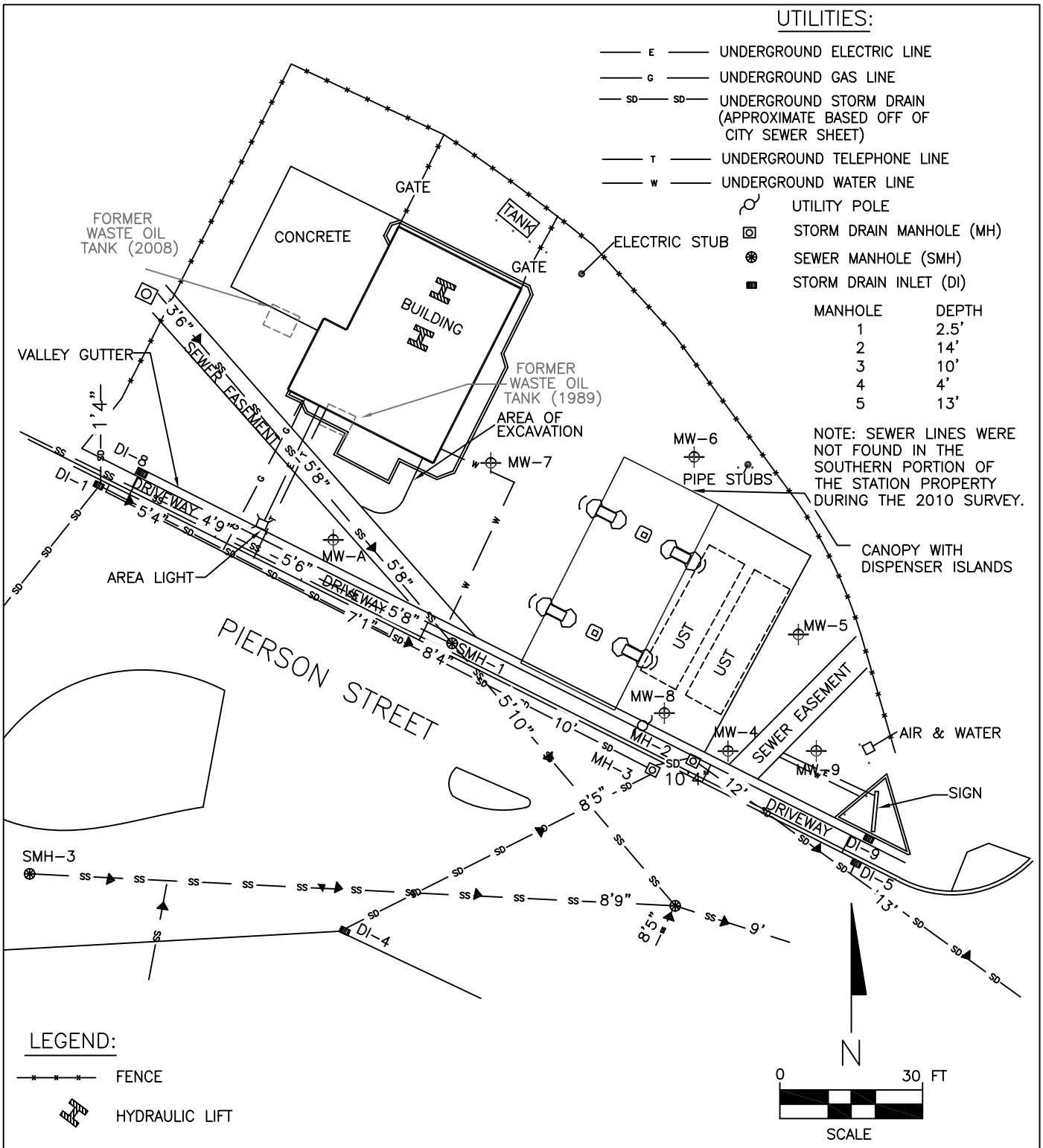
SCALE IN FEET

FIGURE 1
SITE LOCATION MAP
CONOCOPHILLIPS SITE NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105781	DB	DD
DATE	REVIEWED BY	FILE NAME
11/18/08		5781-SL

anteagroup

Figure 2 –
Site Plan with Current Sampling Locations



SITE MAP ADAPTED FROM A MORROW SURVEY DATED 07/10.

FIGURE 2
SITE MAP WITH CURRENT SITE CONFIGURATION AND MONITORING WELLS
CONOCOPHILLIPS STATION NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105781	CM	JH
DATE	REVIEWED BY	FILE NAME
01/21/11	JW	5781-SiteS

anteagroup

Figure 3 –
Site Plan with Cross-Section Locations

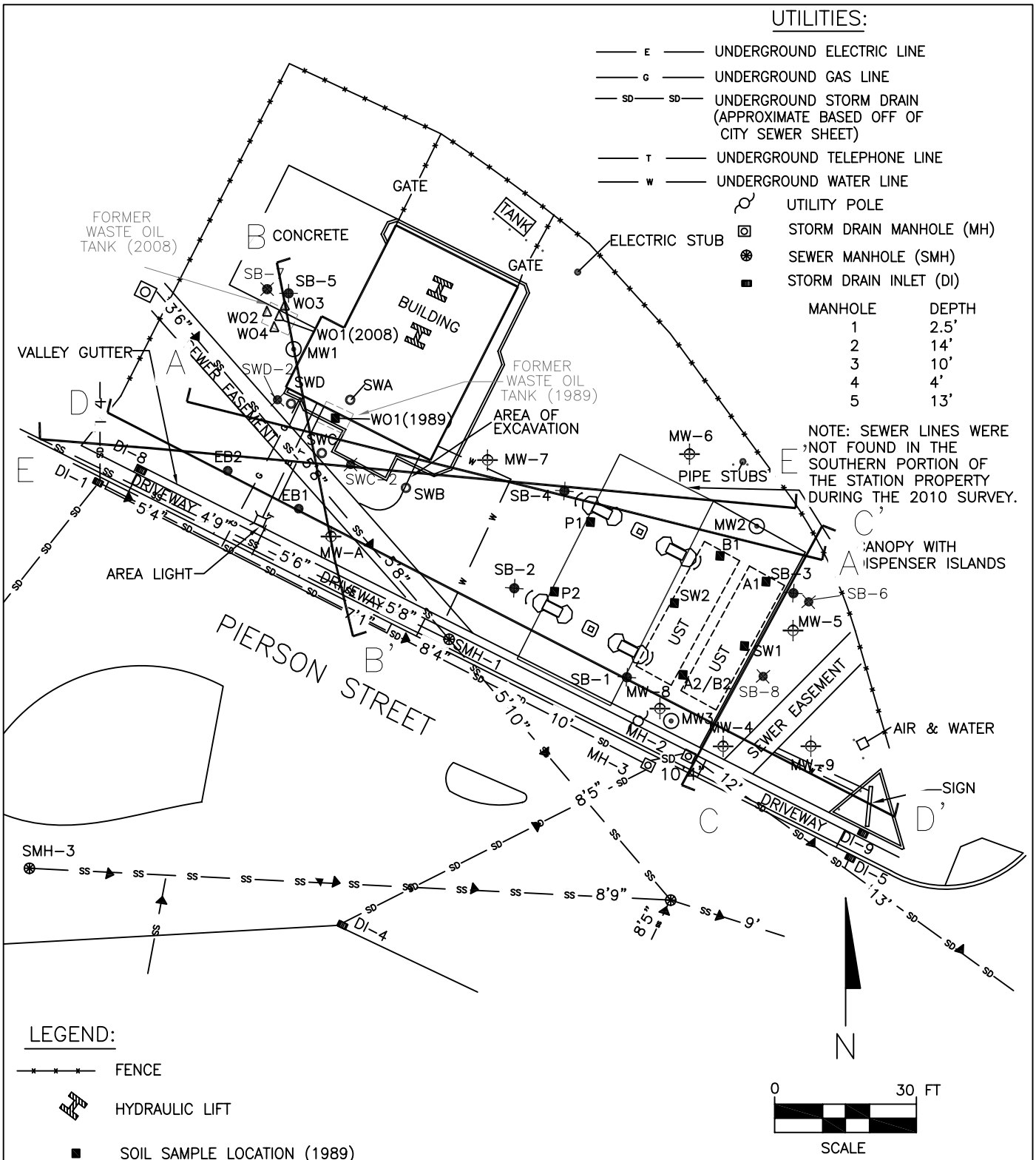


FIGURE 3
SITE MAP WITH CROSS SECTIONS

CONOCOPHILLIPS STATION NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

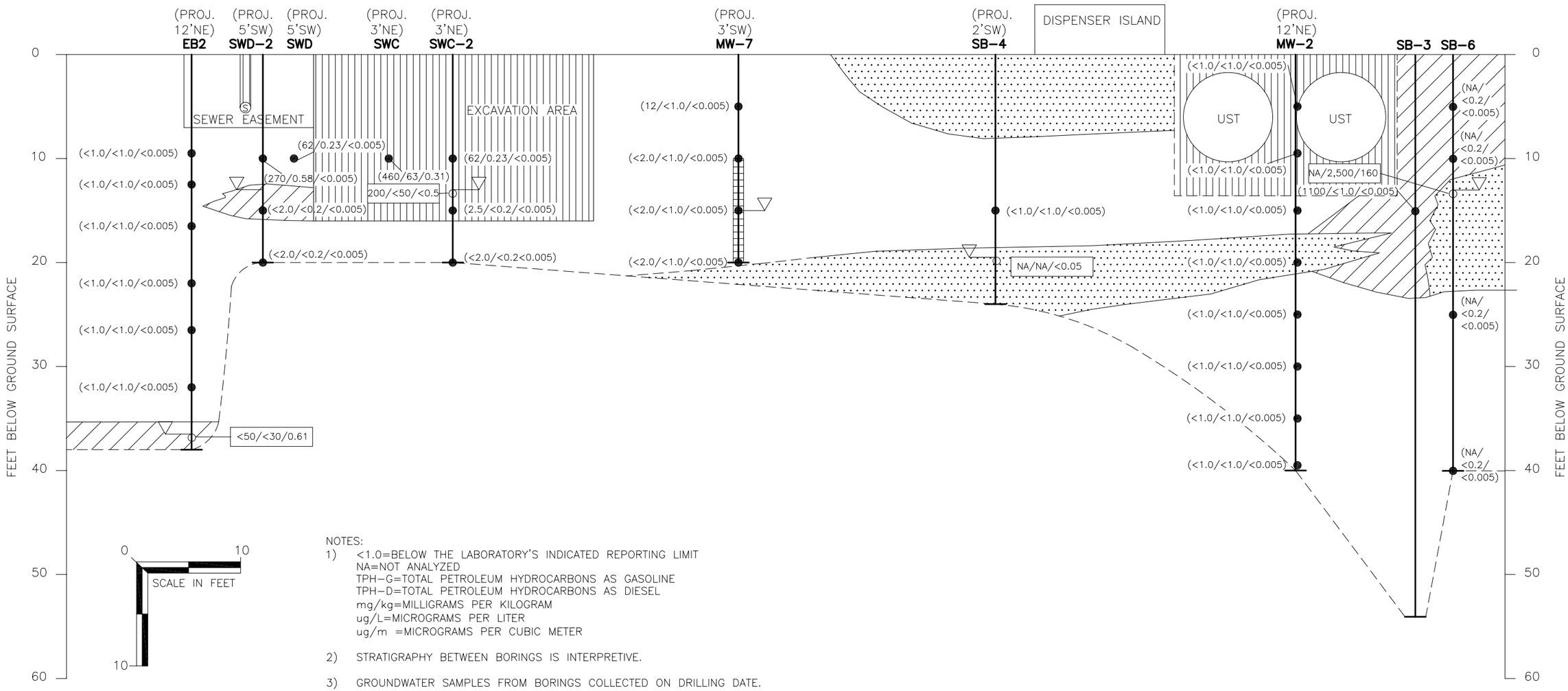
PROJECT NO.	PREPARED BY	DRAWN BY
C105781	CM	JH
DATE	REVIEWED BY	FILE NAME
01/26/11	JW	5781-SiteS

anteagroup

Figure 3A –
Cross Section A-A'

NORTHWEST A

SOUTHEAST A'

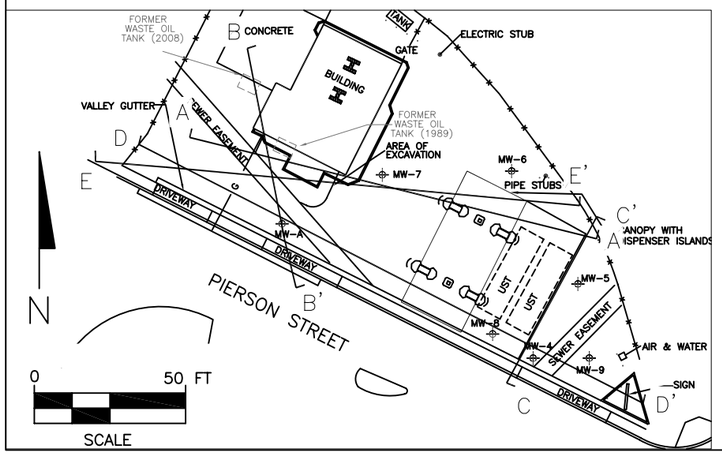


NOTES:

1) <1.0=BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
NA=NOT ANALYZED
TPH-G=TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D=TOTAL PETROLEUM HYDROCARBONS AS DIESEL
mg/kg=MILLIGRAMS PER KILOGRAM
ug/L=MICROGRAMS PER LITER
ug/m =MICROGRAMS PER CUBIC METER

2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

3) GROUNDWATER SAMPLES FROM BORINGS COLLECTED ON DRILLING DATE.



LEGEND

MW-A — BORING/MONITORING WELL NAME

(<1.0/<1.0/<0.005) — SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (mg/kg)

53/<50/<0.3 — DEPTH TO STATIC GROUNDWATER
GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (ug/L) (SAMPLED ON 3/27/09)
WELL SCREEN
DEPTH TO FIRST ENCOUNTERED GROUNDWATER DURING DRILLING

LOW PERMEABILITY (CLAY, SILT)
MEDIUM PERMEABILITY (SAND, GRAVEL W/ CLAY, SILT)
HIGH PERMEABILITY
ARTIFICIAL FILL
APPROXIMATE STRATIGRAPHIC BOUNDARY
(S) SANITARY SEWER LINE (~5 ft bgs)

FIGURE 3A
GEOLOGIC CROSS SECTON A-A'

CONOCOPHILLIPS STATION NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105781	CM	JH
DATE	REVIEWED BY	FILE NAME
01/26/11	JW	5781-SiteS

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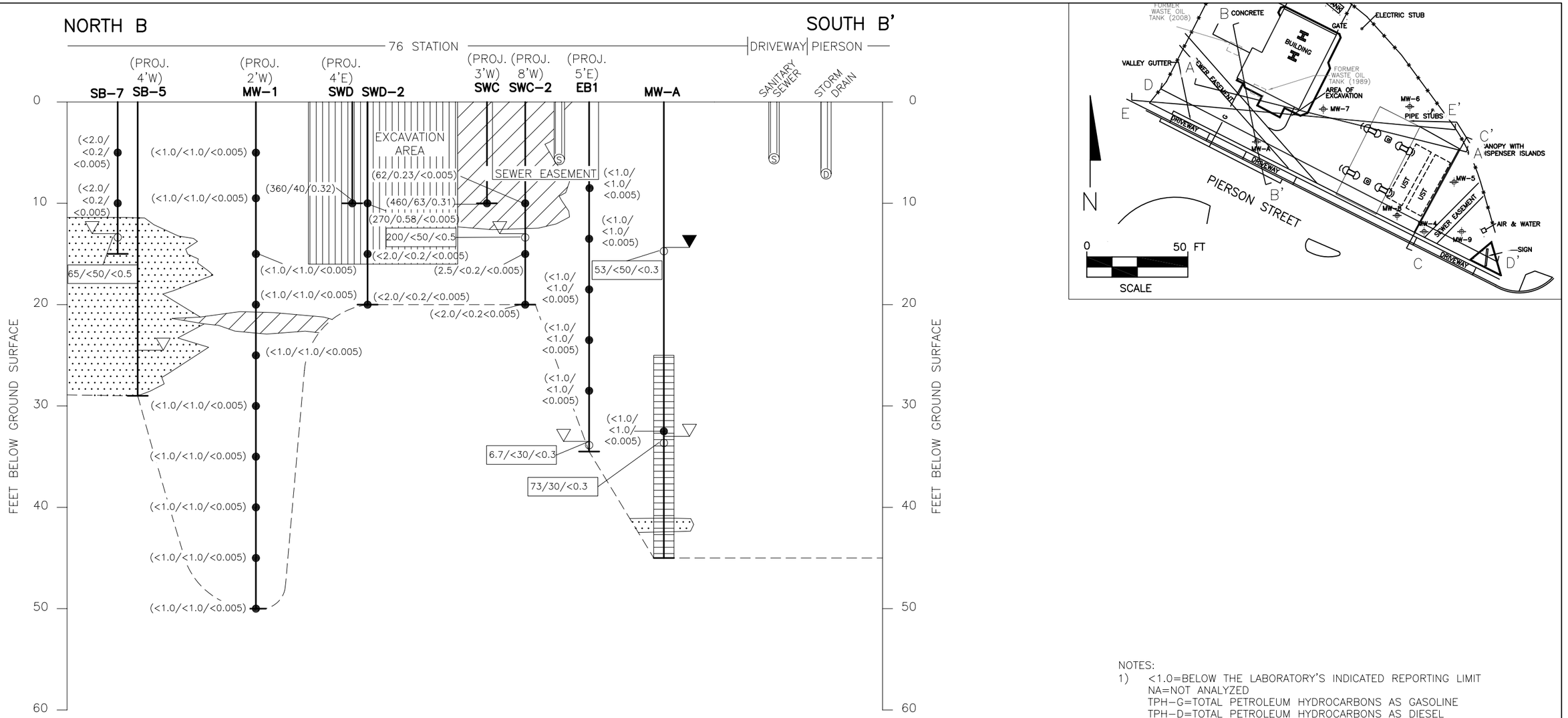
Figure 3B –
Cross Section B-B'



LEGEND

- MW-A — BORING/MONITORING WELL NAME
- (<1.0/<1.0/<0.005) — SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (mg/kg)
- 53/<50/<0.3 — DEPTH TO STATIC GROUNDWATER
  GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (ug/L) (SAMPLED ON 3/27/09)
- WELL SCREEN
- DEPTH TO FIRST ENCOUNTERED GROUNDWATER DURING DRILLING
- LOW PERMEABILITY (CLAY, SILT)
- MEDIUM PERMEABILITY (SAND, GRAVEL W/ CLAY, SILT)
- HIGH PERMEABILITY
- ARTIFICIAL FILL
- APPROXIMATE STRATIGRAPHIC BOUNDARY
- (D) STORM DRAIN (7.1 ft bgs)
- (S) SANITARY SEWER LINE (5.58 ft bgs)

0 — 10
SCALE IN FEET
10

NOTES:
1) <1.0=BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
   NA=NOT ANALYZED
   TPH-G=TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
   TPH-D=TOTAL PETROLEUM HYDROCARBONS AS DIESEL
   mg/kg=MILLIGRAMS PER KILOGRAM
   ug/L=MICROGRAMS PER LITER
   ug/m =MICROGRAMS PER CUBIC METER
2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
3) GROUNDWATER SAMPLES FROM BORINGS COLLECTED ON DRILLING DATE.

FIGURE 3B
GEOLOGIC CROSS SECTION B-B'

CONOCOPHILLIPS STATION NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105781	CM	JH
DATE	REVIEWED BY	FILE NAME
01/26/11	JW	5781-SiteS

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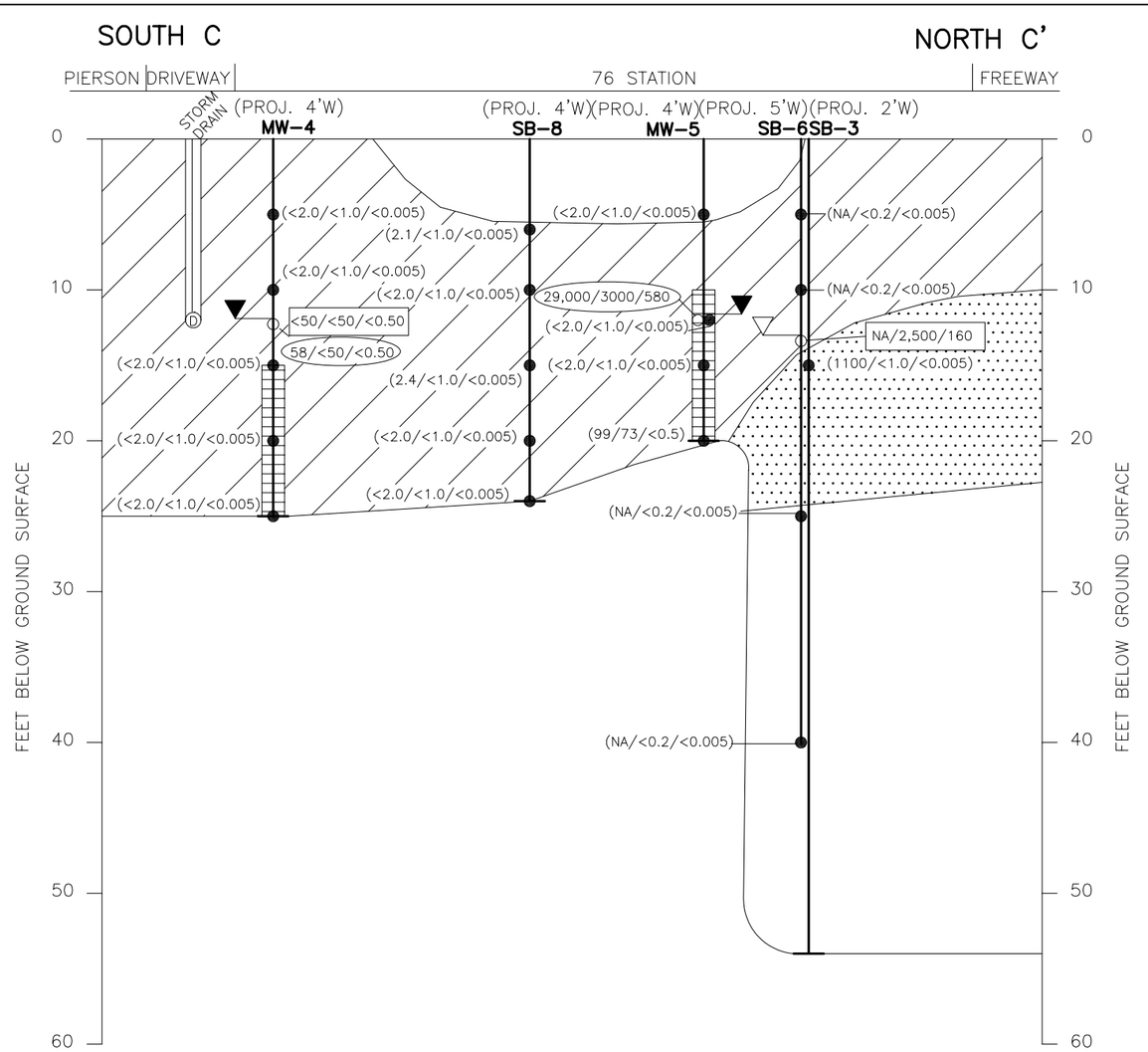
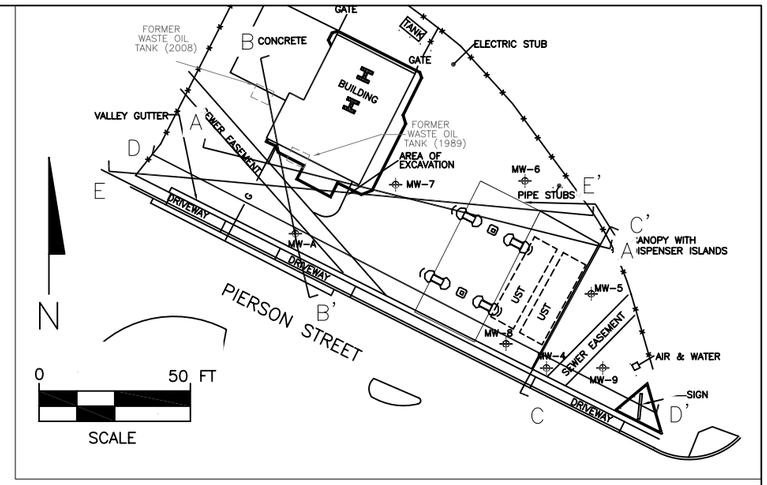
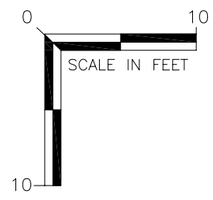
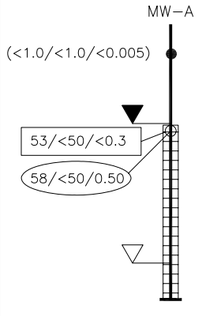
Figure 3C –
Cross Section C-C'







LEGEND



MW-A BORING/MONITORING WELL NAME

(<1.0/<1.0/<0.005) SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (mg/kg)

DEPTH TO STATIC GROUNDWATER

GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (ug/L)
RECTANGLE-(SAMPLED ON 6/24/10) (NON-PURGED SAMPLE)
OVAL-(SAMPLED ON 6/6/10) (PURGED SAMPLE)

WELL SCREEN

DEPTH TO FIRST ENCOUNTERED GROUNDWATER DURING DRILLING

LOW PERMEABILITY (CLAY, SILT)

MEDIUM PERMEABILITY (SAND, GRAVEL W/ CLAY, SILT)

HIGH PERMEABILITY

ARTIFICIAL FILL

APPROXIMATE STRATIGRAPHIC BOUNDARY

(D) STORM DRAIN (12 ft bgs)

NOTES:
1) <1.0=BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
NA=NOT ANALYZED
TPH-G=TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D=TOTAL PETROLEUM HYDROCARBONS AS DIESEL
mg/kg=MILLIGRAMS PER KILOGRAM
ug/L=MICROGRAMS PER LITER
ug/m =MICROGRAMS PER CUBIC METER

2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

3) GROUNDWATER SAMPLES FROM BORINGS COLLECTED ON DRILLING DATE.

FIGURE 3C
GEOLOGIC CROSS SECTION C-C'

CONOCOPHILLIPS STATION NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105781	CM	JH
DATE	REVIEWED BY	FILE NAME
01/26/11	JW	5781-SiteS

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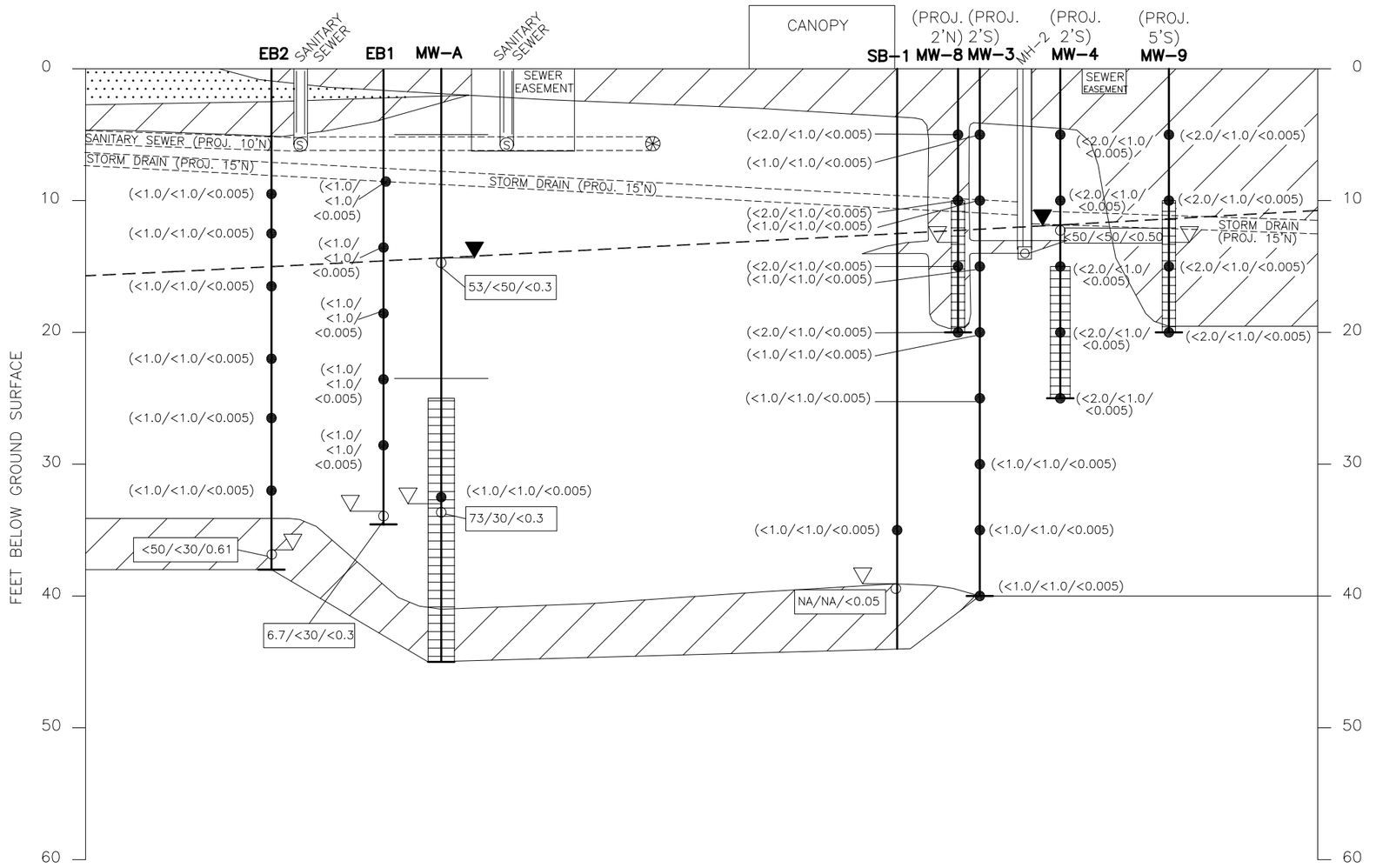
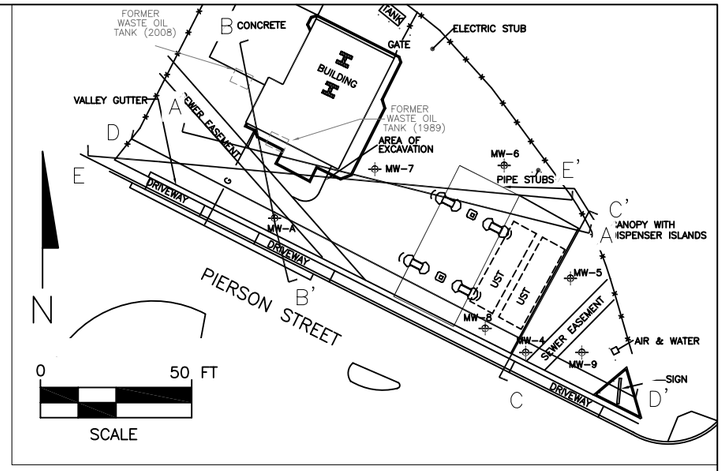
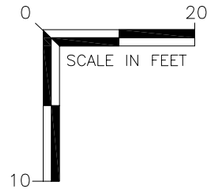
Figure 3D –
Cross Section D-D'

WEST D — EAST D'







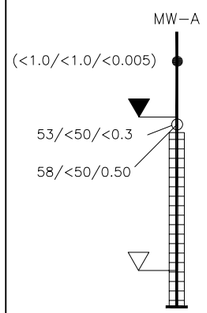
NOTES:

1) <1.0=BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
   NA=NOT ANALYZED
   TPH-G=TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
   TPH-D=TOTAL PETROLEUM HYDROCARBONS AS DIESEL
   mg/kg=MILLIGRAMS PER KILOGRAM
   ug/L=MICROGRAMS PER LITER
   ug/m =MICROGRAMS PER CUBIC METER

2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

3) GROUNDWATER SAMPLES FROM BORINGS COLLECTED ON DRILLING DATE.

LEGEND



- MW-A — BORING/MONITORING WELL NAME
- (<1.0/<1.0/<0.005) — SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (mg/kg)
- DEPTH TO STATIC GROUNDWATER
- 53/<50/<0.3 — GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (ug/L)
- 58/<50/0.50 — RECTANGLE-(SAMPLED ON 6/24/10) (NON-PURGED SAMPLE)
- OVAL-(SAMPLED ON 6/6/10) (PURGED SAMPLE)
- WELL SCREEN
- DEPTH TO FIRST ENCOUNTERED GROUNDWATER DURING DRILLING

- LOW PERMEABILITY (CLAY, SILT)
- MEDIUM PERMEABILITY (SAND, GRAVEL W/ CLAY, SILT)
- HIGH PERMEABILITY
- ARTIFICIAL FILL
- APPROXIMATE STRATIGRAPHIC BOUNDARY

- GROUNDWATER ELEVATION LINE (JUNE 2010)
- PROJECTED UTILITY LINE
- (S) SANITARY SEWER LINE (5.75 ft bgs)
- STORM DRAIN (PROEJCT 10 ft N)
- SEWER MANHOLE (PROJECT 10 ft N)

FIGURE 3D
GEOLOGIC CROSS SECTON D-D'

CONOCOPHILLIPS STATION NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105781	CM	JH
DATE	REVIEWED BY	FILE NAME
01/26/11	JW	5781-SiteS

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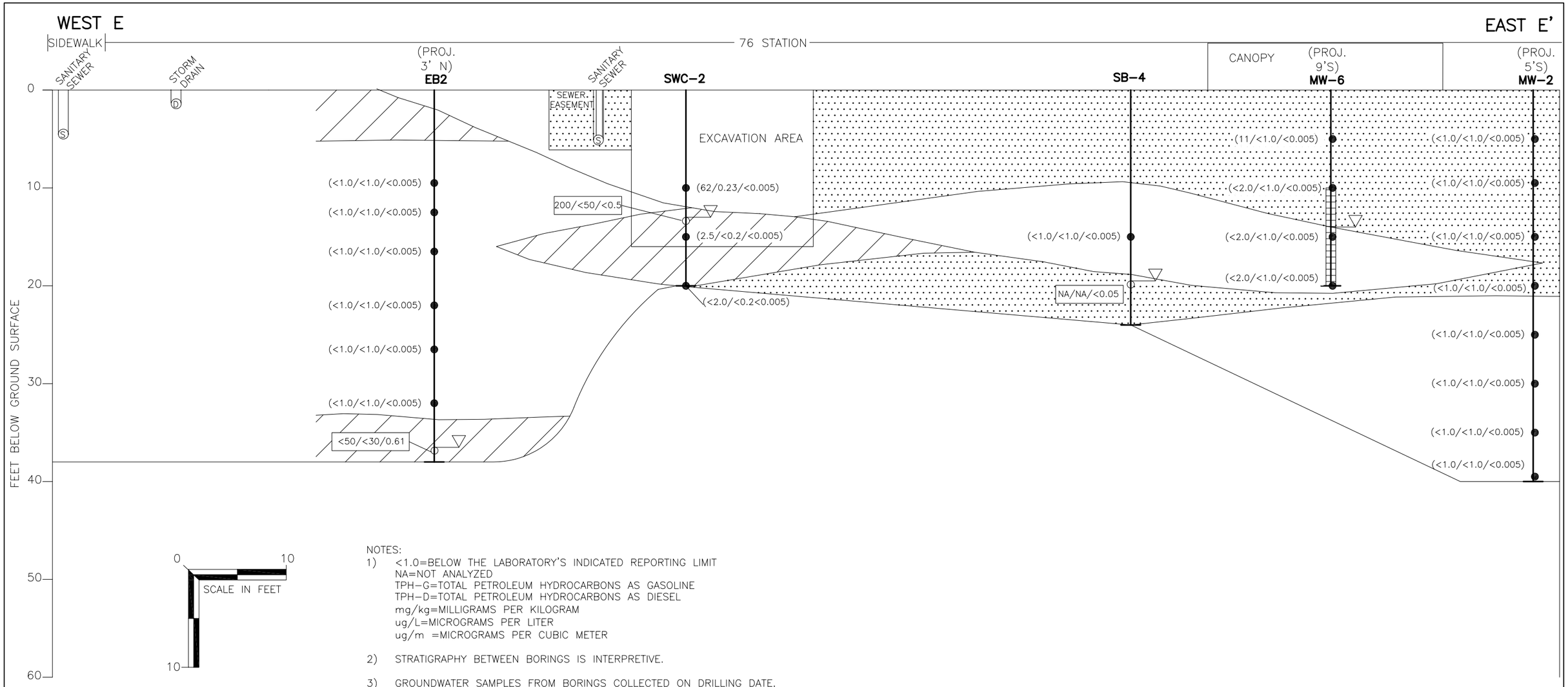
Figure 3E –
Cross Section E-E'

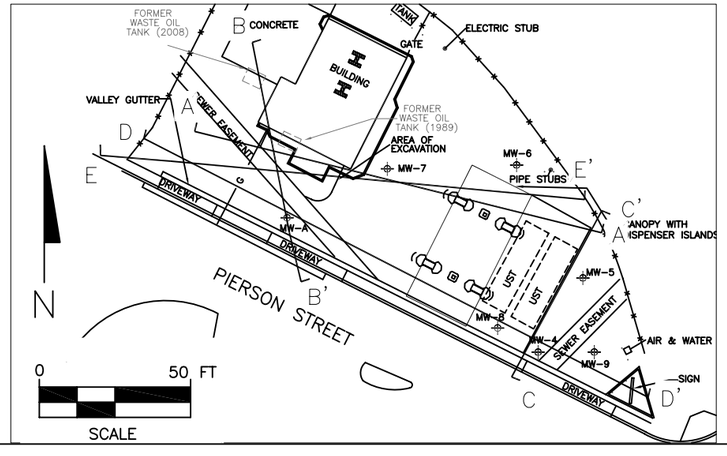


NOTES:

1) <1.0=BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
NA=NOT ANALYZED
TPH-G=TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D=TOTAL PETROLEUM HYDROCARBONS AS DIESEL
mg/kg=MILLIGRAMS PER KILOGRAM
ug/L=MICROGRAMS PER LITER
ug/m =MICROGRAMS PER CUBIC METER

2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

3) GROUNDWATER SAMPLES FROM BORINGS COLLECTED ON DRILLING DATE.



LEGEND

MW-A — BORING/MONITORING WELL NAME

(<1.0/<1.0/<0.005) — SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (mg/kg)

DEPTH TO STATIC GROUNDWATER

53/<50/<0.3 — GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-D, TPH-G, BENZENE (ug/L) (SAMPLED ON 3/27/09)

WELL SCREEN

DEPTH TO FIRST ENCOUNTERED GROUNDWATER DURING DRILLING

LOW PERMEABILITY (CLAY, SILT)

MEDIUM PERMEABILITY (SAND, GRAVEL W/ CLAY, SILT)

HIGH PERMEABILITY

ARTIFICIAL FILL

APPROXIMATE STRATIGRAPHIC BOUNDARY

(S) SANITARY SEWER LINE (4.5 ft bgs)

(D) STORM DRAIN LINE (1.3 ft bgs)

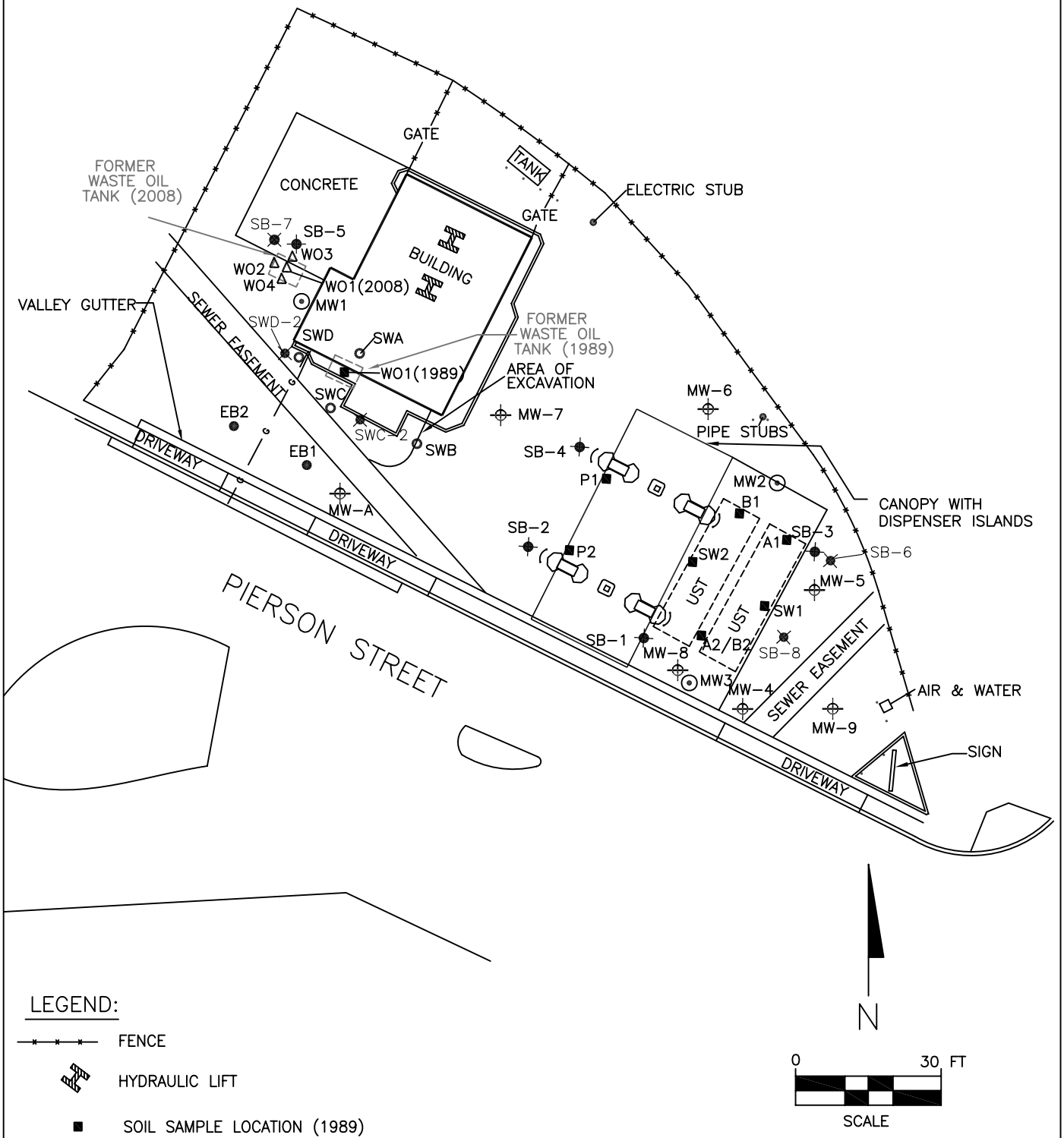
FIGURE 3E
GEOLOGIC CROSS SECTON E-E'

CONOCOPHILLIPS STATION NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105781	CM	JH
DATE	REVIEWED BY	FILE NAME
01/26/11	JW	5781-SiteS

antea group

Figure 4 –
Site Plan with Historical and Current Sampling Locations



LEGEND:

- FENCE
- HYDRAULIC LIFT
- SOIL SAMPLE LOCATION (1989)
- SOIL SAMPLE LOCATION (FEBRUARY 1990)
- EXPLORATORY BORING (APRIL 1990) (NOT CONVERTED TO MONITORING WELL)
- EXPLORATORY BORING (JULY 1990)
- SOIL BORING (OCTOBER 2003)
- SOIL SAMPLE LOCATION (2008)
- SOIL BORING (MARCH/JUNE 2010)
- CURRENT MONITORING WELL

FIGURE 4
SITE MAP WITH HISTORICAL SAMPLING LOCATIONS

CONOCOPHILLIPS STATION NO. 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105781	CM	JH
DATE	REVIEWED BY	FILE NAME
01/21/11	JW	5781-SiteS

anteagroup

ATTACHMENTS

Attachment A-
ACEH Letter Dated October 5, 2010

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

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

October 5, 2010

Bill Borgh (sent via e-mail to bill.borgh@conocophillips.com)
ConocoPhillips
76 Broadway
Sacramento, CA 95818

United Brothers Enterprise, Inc.
3535 Pierson St.
Oakland, CA 94619

Subject: Assessment Report, Site Conceptual Model Update, and Additional Assessment Work plan Approval for Fuel Leak Case No. RO0000253 and GeoTracker Global ID T0600101467, Unocal #5781, 3535 Pierson St., Oakland, CA 94619

Dear Mr. Borgh. etal:

Thank you for the recently submitted document entitled, *Assessment Report, Site Conceptual Model Update, and Additional Assessment Work Plan*, dated July 30, 2010, which was prepared by Delta Consultants for the subject site. Alameda County Environmental Health (ACEH) staff has reviewed the case file including the above-mentioned report/work plan for the above-referenced site. The site conceptual model/ work plan summarizes work that has been performed to date and identifies data gaps that are then addressed in the work plan with the proposed installation of new wells.

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

TECHNICAL COMMENTS

1. **Soil Characterization Source Area Characterization** – In addition to your proposed sampling at every five feet and at areas exhibiting high PID readings, please collect samples at changes in lithology.

NOTIFICATION OF FIELDWORK ACTIVITIES

Please schedule and perform the proposed work. Please provide ACEH with at least three (3) business days notification prior to conducting the fieldwork (e-mail preferred to barbara.jakub@acgov.org).

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Barbara Jakub), according to the following schedule:

- **December 5, 2010 –** SWI

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 639-1287 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,

Barbara J. Jakub, P.G.
Hazardous Materials Specialist

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

cc: Jan Wagoner, Delta Consultants, 11050 White Rock Road, suite 110, Rancho Cordova, CA 95670 (Sent via e-mail to: JWagoner@deltaenv.com)
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (*Sent via E-mail to: lgriffin@oaklandnet.com*)
Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Barbara Jakub, ACEH (*Sent via E-mail to: barbara.jakub@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)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: March 27, 2009
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005
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

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- 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)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

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
         Or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
   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 and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   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.

Attachment B-
TRC's Quarterly Monitoring Report- October through December 2010

TRC

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: January 14, 2011

TO: ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. BILL BORGH

SITE: 76 STATION 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

RE: GROUNDWATER MONITORING REPORT
OCTOBER THROUGH DECEMBER 2010

Dear Mr. Borgh:

Please find enclosed our Groundwater Monitoring Report for 76 Station 5781, located at 3535 Pierson Street, Oakland, California. If you have any questions regarding this report, please call us at (949) 727-9336.

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

CC: Mr. Jan Wagoner, Delta Consultants (3 copies)

Enclosures
20-0400/5781R11.QMS

GROUNDWATER MONITORING REPORT
OCTOBER THROUGH DECEMBER 2010

76 STATION 5781
3535 Pierson Street
Oakland, California

Prepared For:

Mr. Bill Borgh
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:

Senior Project Geologist, Irvine Operations

Date: 1/14/11

PROFESSIONAL GEOLOGIST
DENNIS E. JENSEN
No. 3531
STATE OF CALIFORNIA

TRC

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results Table 2b: Additional Historic Analytical Results Table 2c: Additional Historic Analytical Results Table 2d: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map Figure 6: Dissolved-Phase TPH-D Concentration Map
Graphs	Groundwater Elevation vs. Time TPH-G Concentrations vs. Time TPH-D Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 12/21/10 Groundwater Sampling Field Notes – 12/21/10
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
October 2010 through December 2010
76 Station 5781
3535 Pierson Street
Oakland, CA

Project Coordinator: **Bill Borgh**
Telephone: **916-558-7612**
Water Sampling Contractor: ***TRC***
Compiled by: **Daniel Lee**
Date(s) of Gauging/Sampling Event: **12/21/2010**

Sample Points

Groundwater wells: **7** onsite, **0** offsite Points gauged: **7** Points sampled: **7**
Purging method: **Submersible pump/bailer**
Purge water disposal: **Crosby and Overton treatment facility**
Other Sample Points: **0** Type: **--**

Liquid Phase Hydrocarbons (LPH)

Sample Points with LPH: **0** Maximum thickness (feet): **--**
LPH removal frequency: **--** Method: **--**
Treatment or disposal of water/LPH: **--**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **10.53 feet** Maximum: **14.43 feet**
Average groundwater elevation (relative to available local datum): **142.07 feet**
Average change in groundwater elevation since previous event: **1.67 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.03 ft/ft, west**
Previous event: **0.03 ft/ft, north (9/29/2010)**

Selected Laboratory Results

Sample Points with detected **Benzene:** **1** Sample Points above MCL (1.0 µg/l): **1**
Maximum reported benzene concentration: **81 µg/l (MW-5)**

Sample Points with **TPH-D** **2** Maximum: **11,000 µg/l (MW-5)**

Notes:

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
µg/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND<	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)
D	=	duplicate
P	=	no-purge sample

ANALYTES

DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-G (GC/MS)	=	total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (Dp x LPH Thickness), where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Prior to the 1st quarter 2010, the word "monitor" was used in table comments interchangeably with the word "gauge". Starting in the 1st quarter 2010, the word "monitor" is used to include both "gauge" and "sample".

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 5781 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Contents of Tables 1 and 2
Site: 76 Station 5781

Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-D	TPH-G 8015	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)
Table 1a	Well/ Date	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Methanol				

Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-D	TPH-G 8015	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)
Table 2a	Well/ Date	TPH-G (GC/MS)	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Methanol	Total Oil and Grease	TRPH	Bromo-dichloro-methane
Table 2b	Well/ Date	Bromo-form	Bromo-methane	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	2-Chloroethyl vinyl ether	Chloroform	Chloro-methane	Dibromo-chloro-methane	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene
Table 2c	Well/ Date	Dichloro-difluoro-methane	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,2-Dichloro-propane	cis-1,3-Dichloro-propene	trans-1,3-Dichloro-propene	Methylene chloride	1,1,2,2-Tetrachloro-ethane	Tetrachloro-ethene (PCE)	Trichloro-trifluoro-ethane
Table 2d	Well/ Date	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Trichloro-ethene (TCE)	Trichloro-fluoro-methane	Vinyl chloride							

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 21, 2010

76 Station 5781

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4			**(Screen Interval in feet: 15-25)**											
12/21/2010	153.48	11.17	0.00	142.31	1.45	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5			**(Screen Interval in feet: 10-20)**											
12/21/2010	153.66	11.17	0.00	142.49	2.50	11000	50000	81	4800	2200	22000	--	ND<50	
MW-6			**(Screen Interval in feet: 10-20)**											
12/21/2010	154.62	12.10	0.00	142.52	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
MW-7			**(Screen Interval in feet: 10-20)**											
12/21/2010	155.38	13.46	0.00	141.92	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-8			**(Screen Interval in feet: 10-20)**											
12/21/2010	153.71	11.63	0.00	142.08	--	81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.9	
MW-9			**(Screen Interval in feet: 10-20)**											
12/21/2010	153.37	10.53	0.00	142.84	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
MW-A			**(Screen Interval in feet:--)**											
12/21/2010	154.79	14.43	0.00	140.36	1.07	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.65	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 5781

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Methanol (µg/l)
MW-4								
12/21/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100
MW-5								
12/21/2010	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100
MW-6								
12/21/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100
MW-7								
12/21/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100
MW-8								
12/21/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100
MW-9								
12/21/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100
MW-A								
12/21/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1990 Through December 2010

76 Station 5781

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4			**(Screen Interval in feet: 15-25)**											
6/16/2010	153.48	11.13	0.00	142.35	--	ND<50	58	ND<0.50	9.7	1.3	16	--	5.4	
9/29/2010	153.48	12.62	0.00	140.86	-1.49	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.3	
12/21/2010	153.48	11.17	0.00	142.31	1.45	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5			**(Screen Interval in feet: 10-20)**											
6/16/2010	153.66	11.95	0.00	141.71	--	3000	29000	580	6800	850	7200	--	ND<50	
9/29/2010	153.66	13.67	0.00	139.99	-1.72	64000	29000	220	4100	2500	23000	--	52	
12/21/2010	153.66	11.17	0.00	142.49	2.50	11000	50000	81	4800	2200	22000	--	ND<50	
MW-6			**(Screen Interval in feet: 10-20)**											
12/21/2010	154.62	12.10	0.00	142.52	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
MW-7			**(Screen Interval in feet: 10-20)**											
12/21/2010	155.38	13.46	0.00	141.92	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-8			**(Screen Interval in feet: 10-20)**											
12/21/2010	153.71	11.63	0.00	142.08	--	81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.9	
MW-9			**(Screen Interval in feet: 10-20)**											
12/21/2010	153.37	10.53	0.00	142.84	--	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
MW-A			**(Screen Interval in feet: --)**											
12/18/1990	--	--	--	--	--	73	ND	ND	ND	ND	ND	--	--	
5/3/1991	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	
8/7/1991	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	
11/8/1991	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--	--	
2/6/1992	151.80	19.88	0.00	131.92	--	ND	ND	ND	ND	ND	ND	--	--	
8/4/1992	151.80	18.95	0.00	132.85	0.93	ND	ND	ND	ND	ND	0.51	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1990 Through December 2010

76 Station 5781

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-A continued														
2/10/1993	151.80	17.71	0.00	134.09	1.24	ND	ND	ND	ND	ND	ND	--	--	
2/10/1994	151.80	15.25	0.00	136.55	2.46	ND	ND	ND	0.52	ND	0.92	--	--	
2/9/1995	151.80	15.68	0.00	136.12	-0.43	ND	ND	ND	ND	ND	ND	--	--	
2/6/1996	151.80	12.52	0.00	139.28	3.16	120	ND	ND	ND	ND	2.1	--	--	
2/5/1997	151.80	13.01	0.00	138.79	-0.49	61	ND	ND	ND	ND	ND	--	ND	
2/2/1998	151.80	11.91	0.00	139.89	1.10	ND	ND	ND	ND	ND	ND	--	ND	
2/22/1999	151.80	11.24	0.00	140.56	0.67	ND	ND	ND	ND	ND	ND	--	ND	
2/26/2000	151.80	12.16	0.00	139.64	-0.92	ND	ND	ND	1.01	ND	ND	--	ND	
3/7/2001	151.80	11.91	0.00	139.89	0.25	131	ND	ND	ND	ND	ND	ND	ND	
2/22/2002	151.80	14.08	0.00	137.72	-2.17	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<5.0	
2/22/2003	151.80	14.41	0.00	137.39	-0.33	93	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0	
2/3/2004	151.80	14.32	0.00	137.48	0.09	60	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
2/18/2005	151.80	14.21	0.00	137.59	0.11	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	
3/29/2006	151.80	12.72	0.00	139.08	1.49	ND<200	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	0.54	
3/28/2007	151.80	13.98	0.00	137.82	-1.26	92	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
3/22/2008	151.80	12.68	0.00	139.12	1.30	ND<50	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
3/27/2009	151.80	14.35	0.00	137.45	-1.67	53	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
3/23/2010	151.80	19.55	0.00	132.25	-5.20	ND<58	--	--	--	--	--	--	--	
6/16/2010	154.79	17.85	0.00	136.94	4.69	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/29/2010	154.79	15.50	0.00	139.29	2.35	ND<1200	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.63	
12/21/2010	154.79	14.43	0.00	140.36	1.07	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.65	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 5781

Date Sampled	TPH-G (GC/MS) (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Methanol (µg/l)	Total Oil and Grease (mg/l)	TRPH (mg/l)	Bromo-dichloro-methane (µg/l)
MW-4												
6/16/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--
9/29/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--
MW-5												
6/16/2010	--	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	--	--	--
9/29/2010	--	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1000	--	--	--
12/21/2010	--	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<100	--	--	--
MW-6												
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--
MW-7												
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--
MW-8												
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--
MW-9												
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--
MW-A												
2/6/1996		--	--	--	--	--	--	--	--	--	--	--
2/5/1997		--	--	--	--	--	--	--	--	--	--	--
3/7/2001		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
2/22/2003	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
2/3/2004	--	ND<100	ND<500	ND<2.0	ND<0.50	ND<2.0	ND<2.0	ND<2.0	--	--	ND<1.0	ND<0.50
2/18/2005	--	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<2.0	--	ND<0.50
3/29/2006	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	ND<0.50

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 5781

Date Sampled	TPH-G (GC/MS) (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Methanol (µg/l)	Total Oil and Grease (mg/l)	TRPH (mg/l)	Bromo-dichloro-methane (µg/l)
MW-A continued												
3/28/2007	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<5.0	--	ND<0.50
3/22/2008	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<5.0	--	ND<0.50
3/27/2009	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<5.0	--	ND<0.50
6/16/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--
9/29/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--
12/21/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	--	--

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 5781

Date Sampled	Bromo-form (µg/l)	Bromo-methane (µg/l)	Carbon Tetra-chloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	2-Chloroethyl vinyl ether (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	Dibromo-chloro-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)
MW-A												
2/3/2004	ND<2.0	ND<1.0	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50
2/18/2005	ND<2.0	ND<1.0	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/29/2006	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/28/2007	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/22/2008	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/27/2009	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

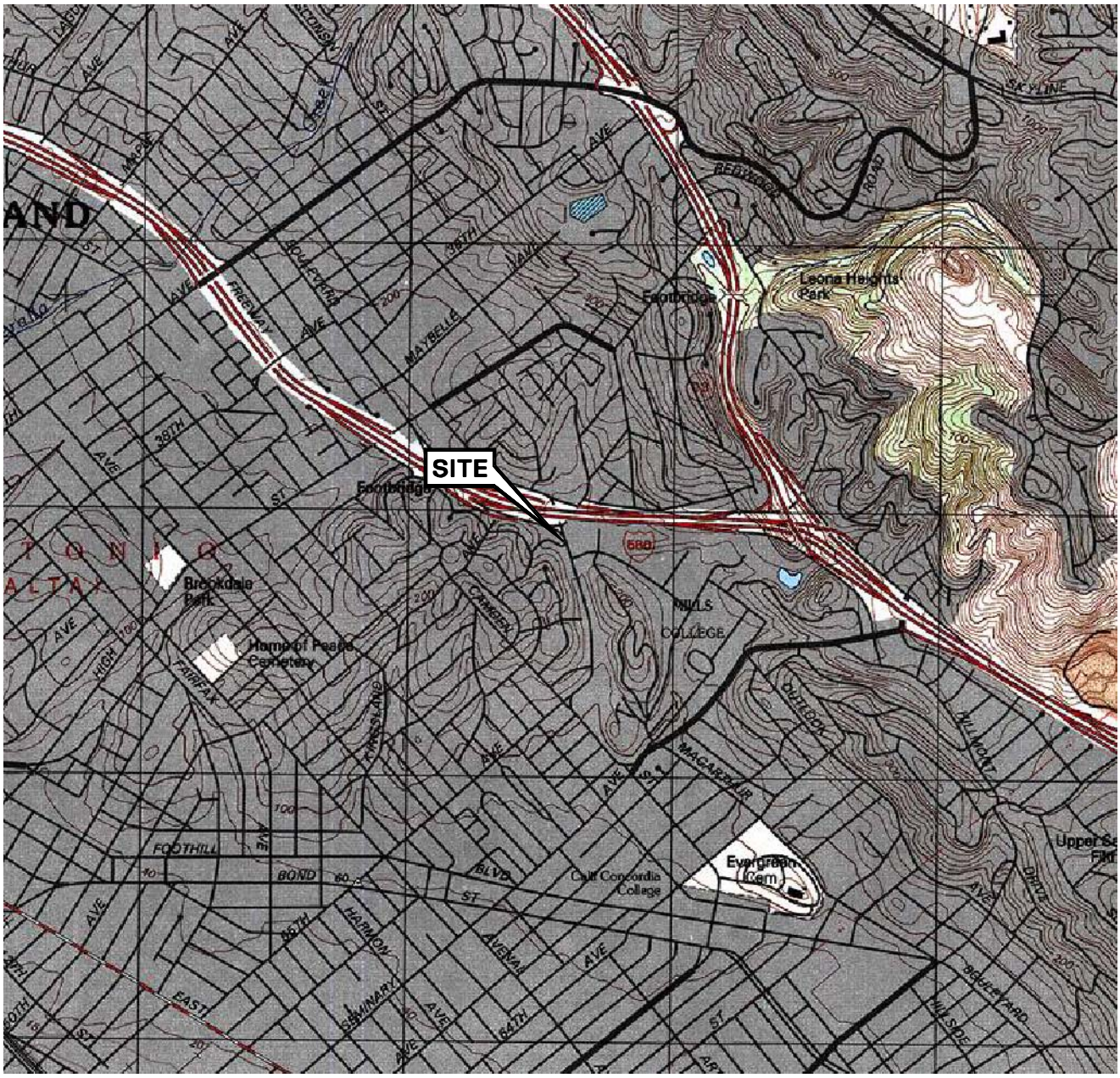
Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 5781

Date Sampled	Dichloro-difluoro-methane (µg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	1,2-Dichloro-propane (µg/l)	cis-1,3-Dichloro-propene (µg/l)	trans-1,3-Dichloro-propene (µg/l)	Methylene chloride (µg/l)	1,1,2,2-Tetrachloro-ethane (µg/l)	Tetrachloro-ethene (PCE) (µg/l)	Trichloro-trifluoro-ethane (µg/l)
MW-A												
2/3/2004	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50
2/18/2005	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50
3/29/2006	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50
3/28/2007	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50
3/22/2008	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50
3/27/2009	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50

Table 2 d
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 5781

Date Sampled	1,1,1-Trichloro-ethane (µg/l)	1,1,2-Trichloro-ethane (µg/l)	Trichloro-ethene (TCE) (µg/l)	Trichloro-fluoro-methane (µg/l)	Vinyl chloride (µg/l)
MW-A					
2/3/2004	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50
2/18/2005	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50
3/29/2006	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/28/2007	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/22/2008	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/27/2009	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

FIGURES



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SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Oakland East Quadrangle

0 1/4 1/2 3/4 1 MILE

SCALE 1: 24,000

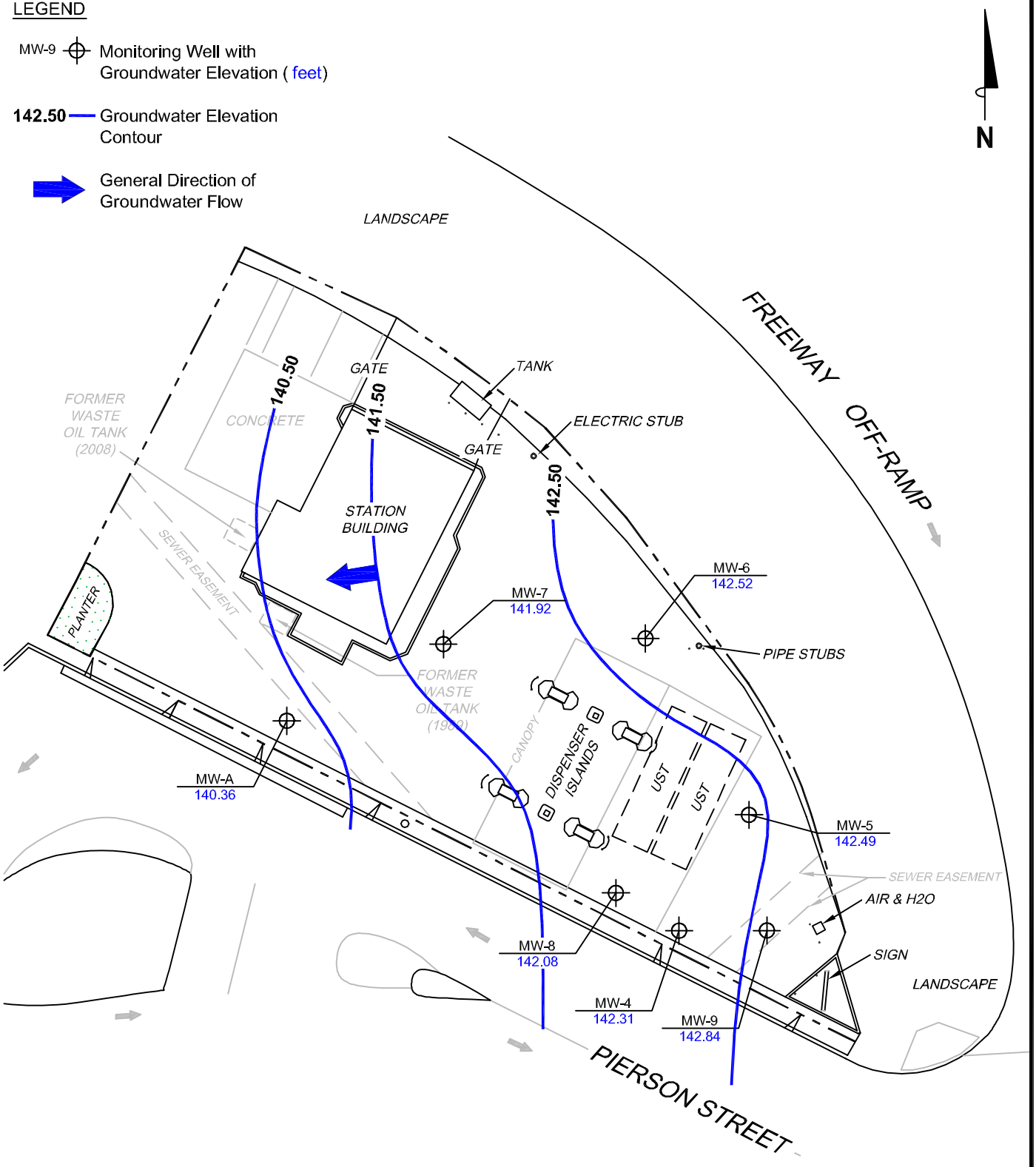
TRC

76 STATION 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

VICINITY MAP

FIGURE 1

PS=1:1 L:\QMS VICINITY MAPS\5781vm.dwg Apr 06, 2010 - 11:39am bschmidt



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

SCALE (FEET)

0 30

TRC	PROJECT: 173845 FACILITY: 76 STATION 5781 3535 PIERSON STREET OAKLAND, CALIFORNIA	**GROUNDWATER ELEVATION CONTOUR MAP** **December 21, 2010** **FIGURE 2**

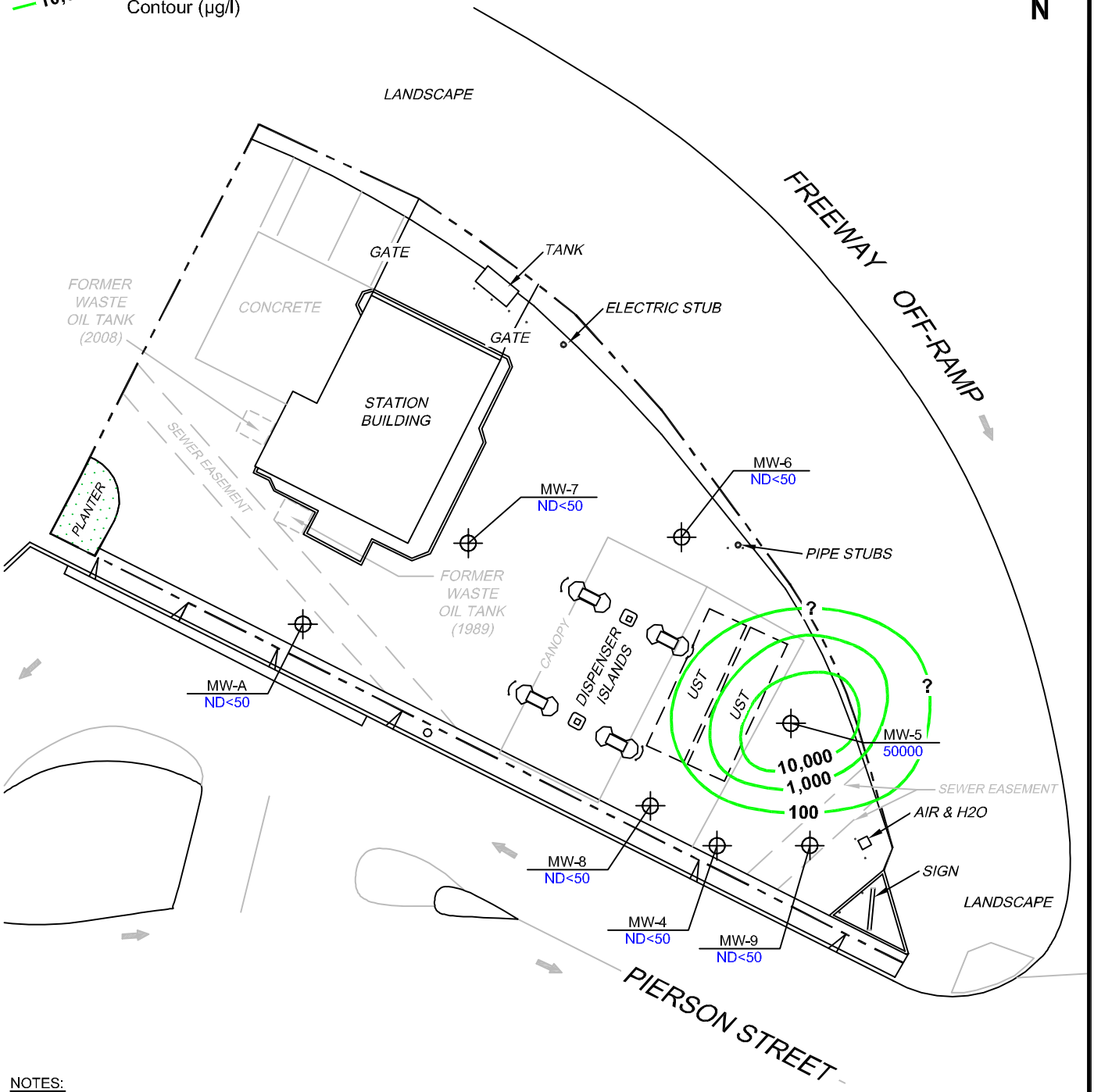
MS=1:30 5781-003 L:\Graphics\QMS NORTH-SOUTH\x-5000\5781+\5781QMS.dwg Jan 14, 2011 - 3:31pm Rcollins

LEGEND

MW-9 ⊕ Monitoring Well with Dissolved-Phase TPH-G (8015) Concentration (µg/l)

10,000 Dissolved-Phase TPH-G Contour (µg/l)

N



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-G = total petroleum hydrocarbons with gasoline. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8015.

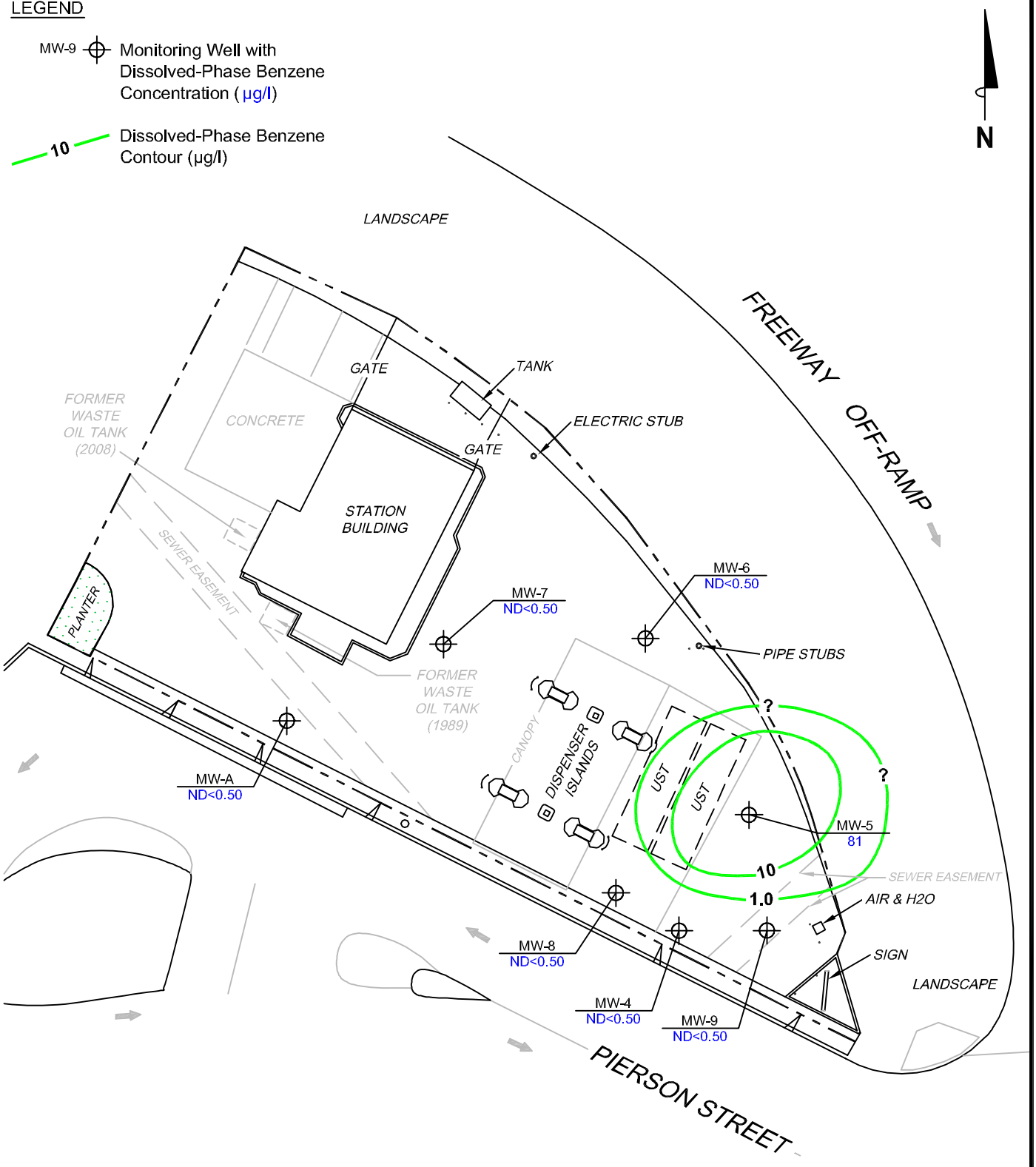
SCALE (FEET)

0 30

TRC	PROJECT: 173845 FACILITY: 76 STATION 5781 3535 PIERSON STREET OAKLAND, CALIFORNIA	**DISSOLVED-PHASE TPH-G CONCENTRATION MAP** **December 21, 2010** **FIGURE 3**

L:\Graphics\QMS NORTH-SOUTH\x-5000\5781+\5781QMS.dwg Jan 14, 2011 - 3:32pm Rcollins

MS=1:30 5781-003



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank.

SCALE (FEET)
0 30

TRC	PROJECT: 173845 FACILITY: 76 STATION 5781 3535 PIERSON STREET OAKLAND, CALIFORNIA	**DISSOLVED-PHASE BENZENE CONCENTRATION MAP** **December 21, 2010** **FIGURE 4**

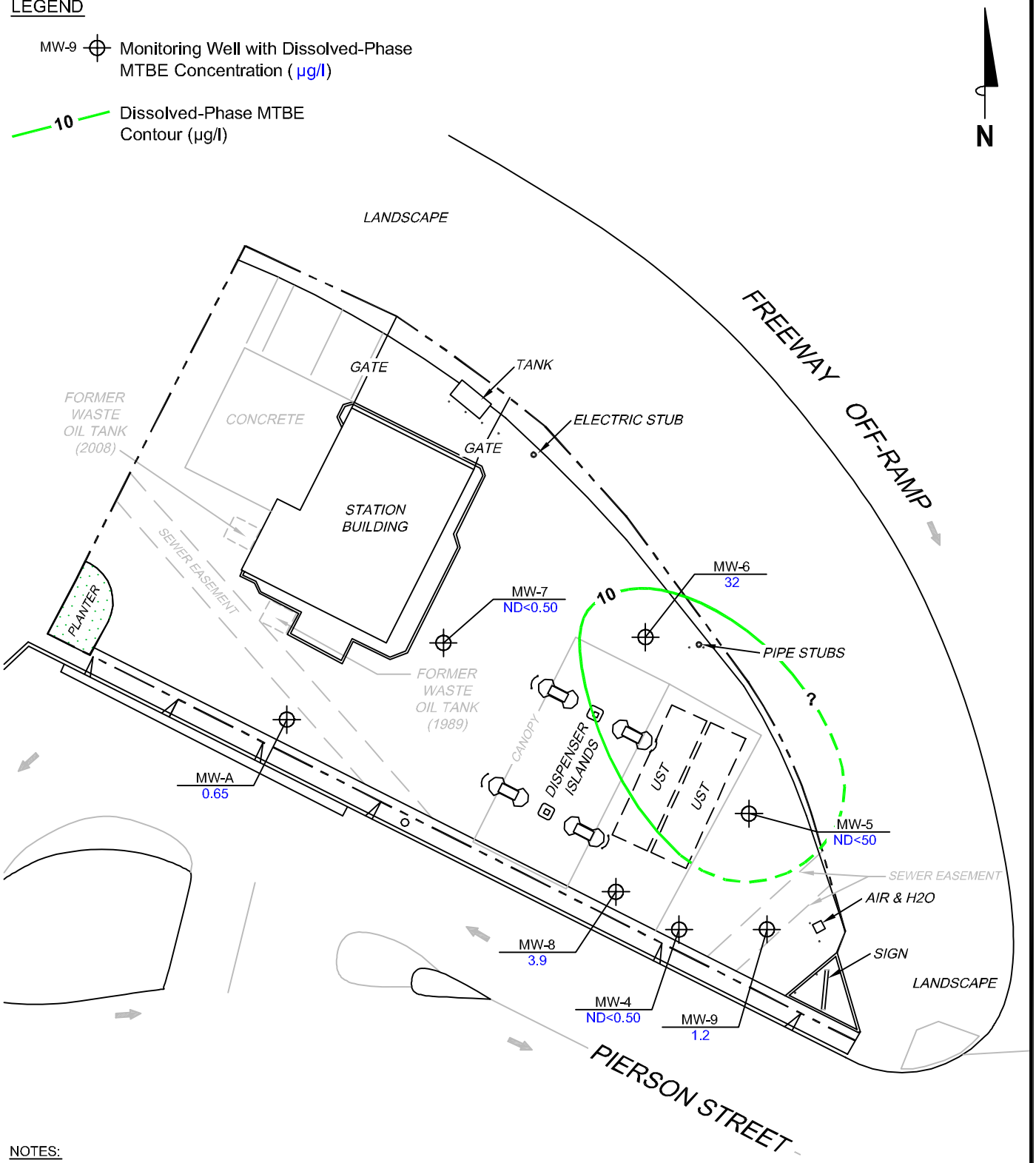
L:\Graphics\QMS NORTH-SOUTH\x-5000\5781+\5781QMS.dwg Jan 14, 2011 - 3:32pm Rcollins

MS=1:30 5781-003

LEGEND

MW-9 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

10 Dissolved-Phase MTBE Contour (µg/l)



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank. Results obtained using EPA Method 8260B.

SCALE (FEET)

0 30

TRC

PROJECT: 173845

FACILITY:

76 STATION 5781
3535 PIERSON STREET
OAKLAND, CALIFORNIA

DISSOLVED-PHASE MTBE CONCENTRATION MAP
December 21, 2010

FIGURE 5

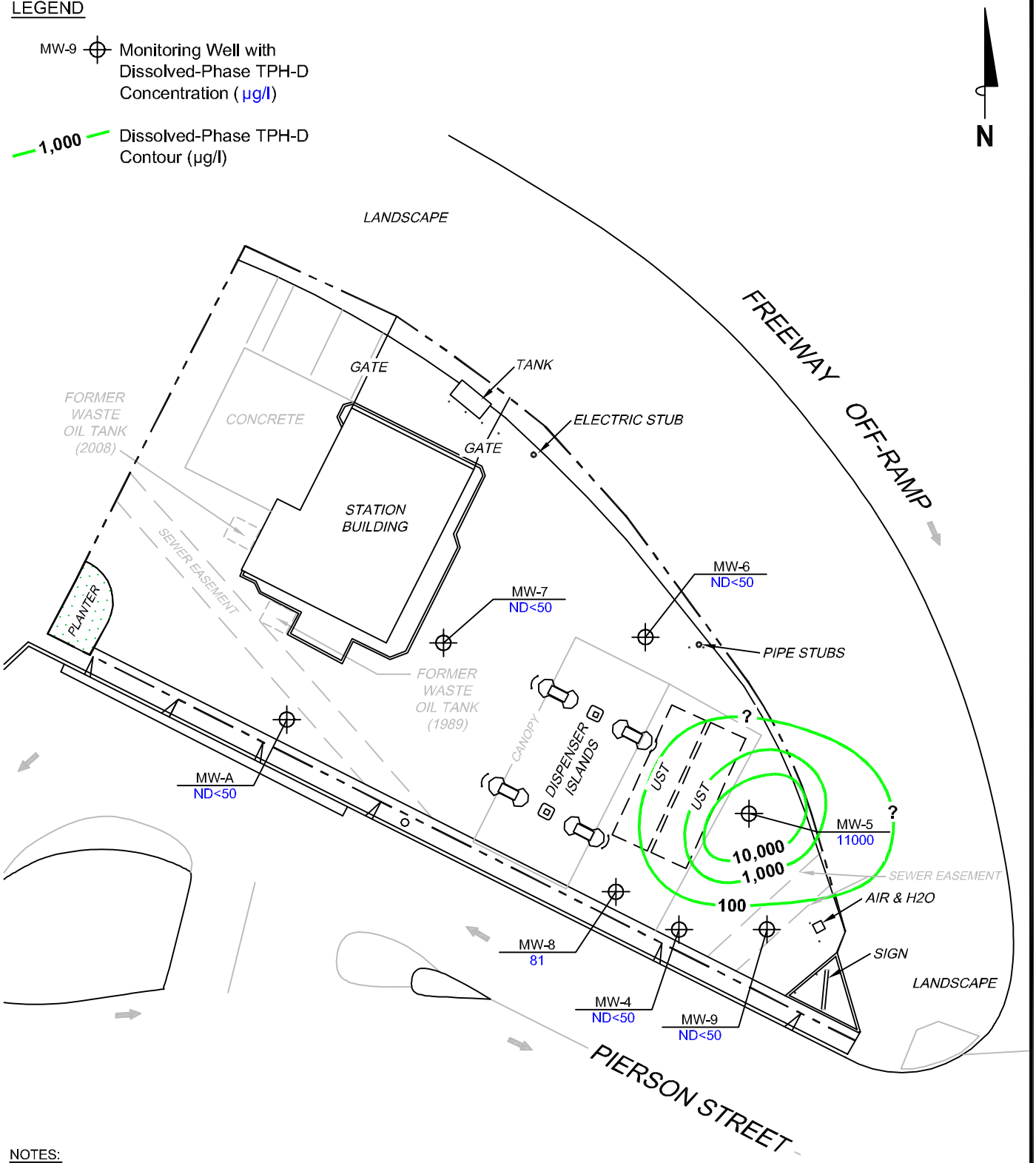
L:\Graphics\QMS NORTH-SOUTH\x-5000\5781+\5781QMS.dwg Jan 14, 2011 - 3:34pm Rcollins

MS=1:30 5781-003

LEGEND

MW-9 ⊕ Monitoring Well with Dissolved-Phase TPH-D Concentration (µg/l)

1,000 Dissolved-Phase TPH-D Contour (µg/l)



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-D = total petroleum hydrocarbons as diesel. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8015.

SCALE (FEET)

0 30

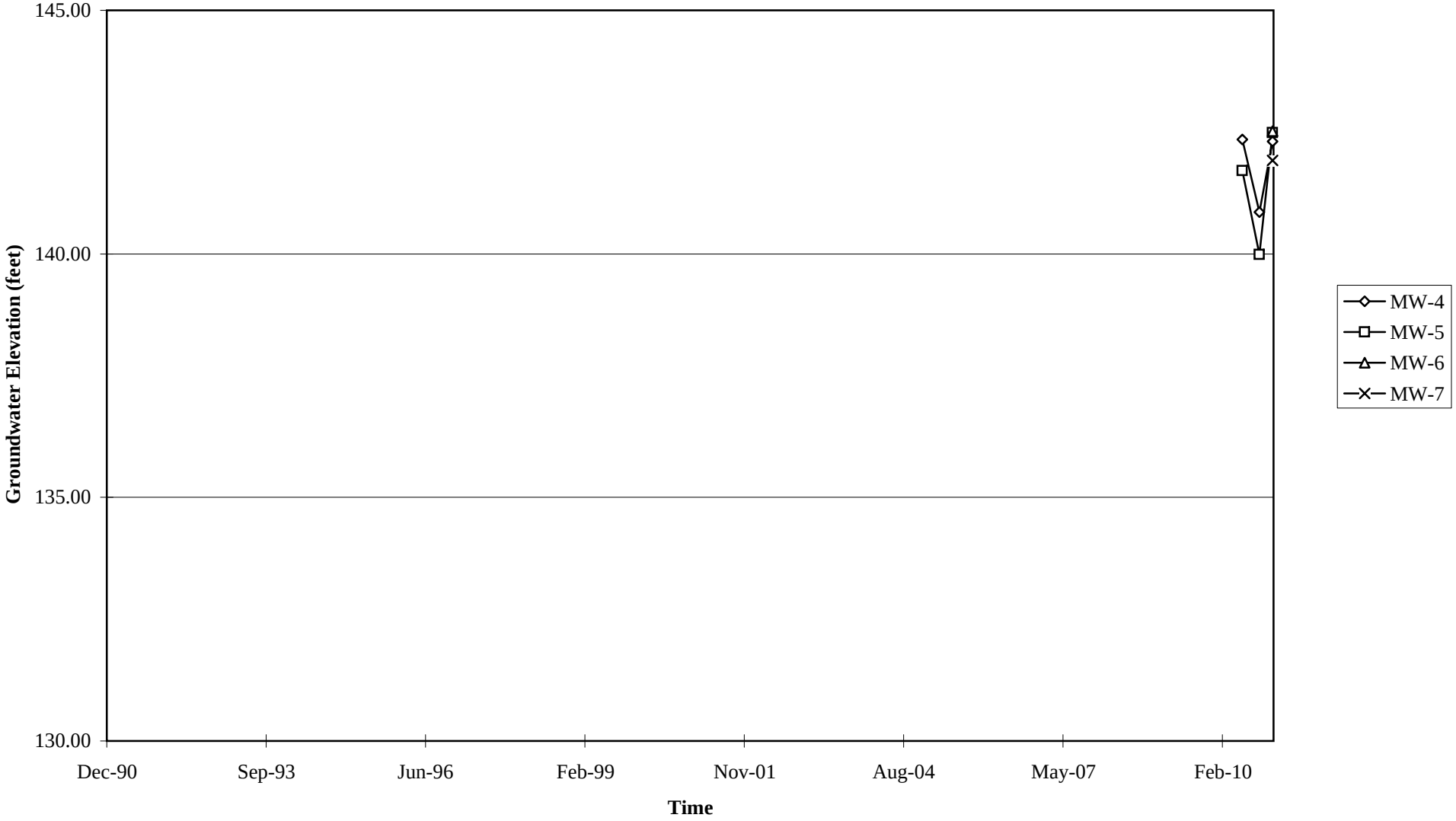
TRC	PROJECT: 173845 FACILITY: 76 STATION 5781 3535 PIERSON STREET OAKLAND, CALIFORNIA	**DISSOLVED-PHASE TPH-D CONCENTRATION MAP December 21, 2010** **FIGURE 6**

L:\Graphics\QMS NORTH-SOUTH\x-5000\5781+\5781QMS.dwg Jan 14, 2011 - 3:39pm Rcollins

MS=1:30 5781-003

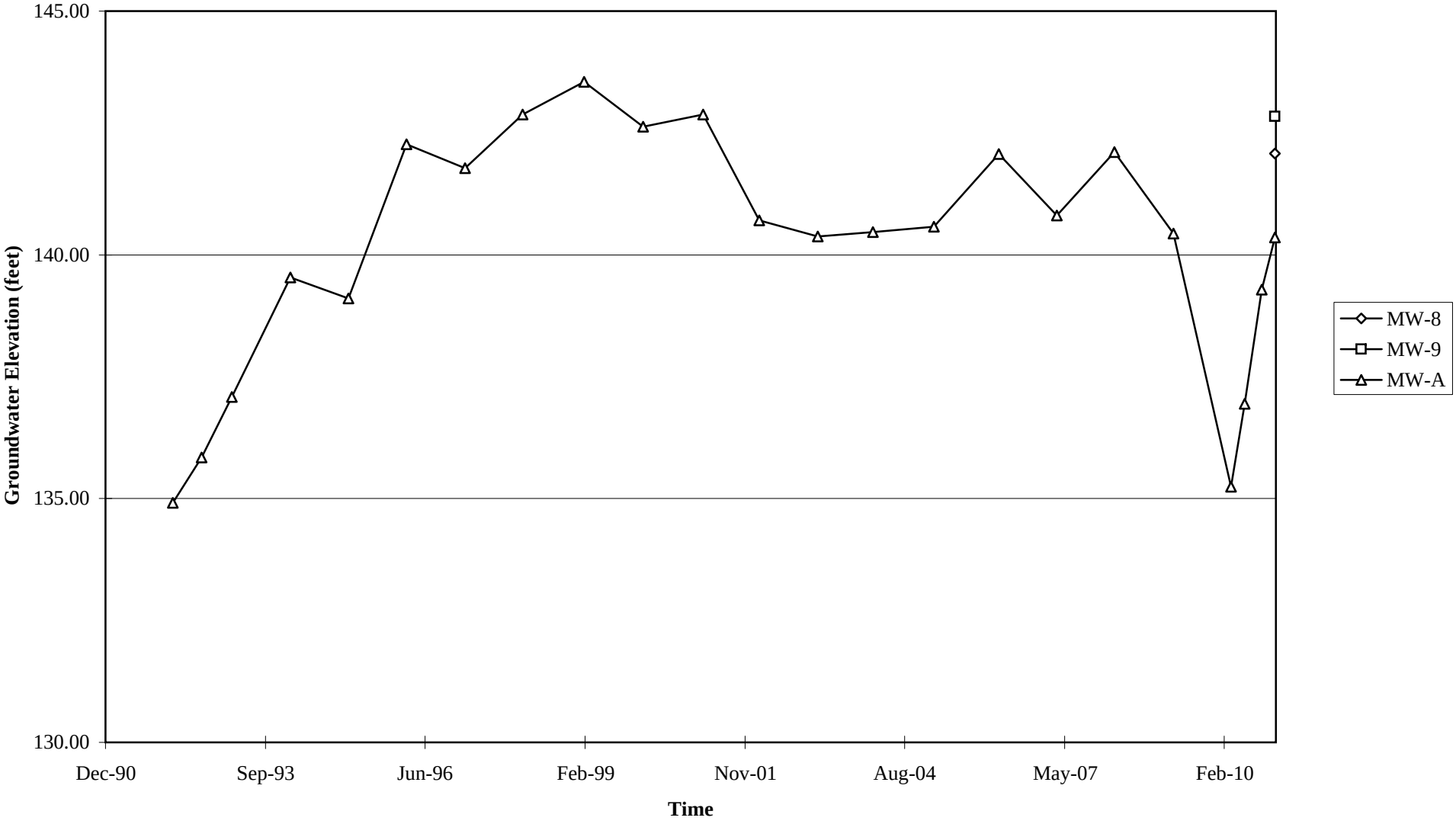
GRAPHS

Groundwater Elevations vs. Time
76 Station 5781



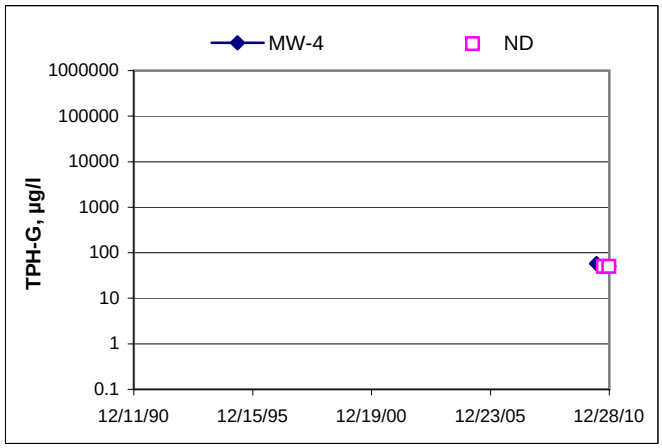
Elevations may have been corrected for apparent changes due to resurvey

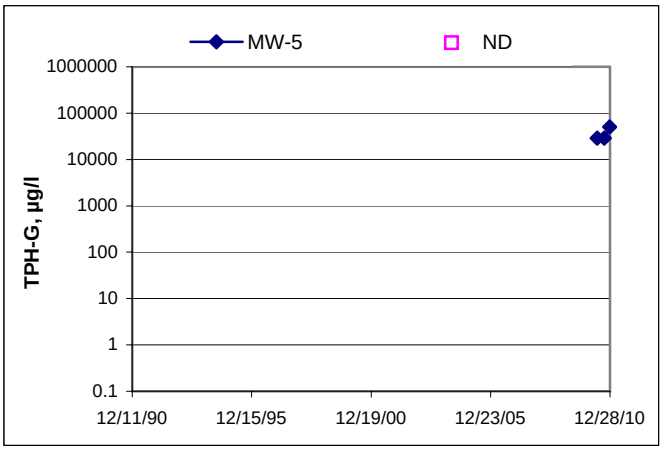
Groundwater Elevations vs. Time
76 Station 5781

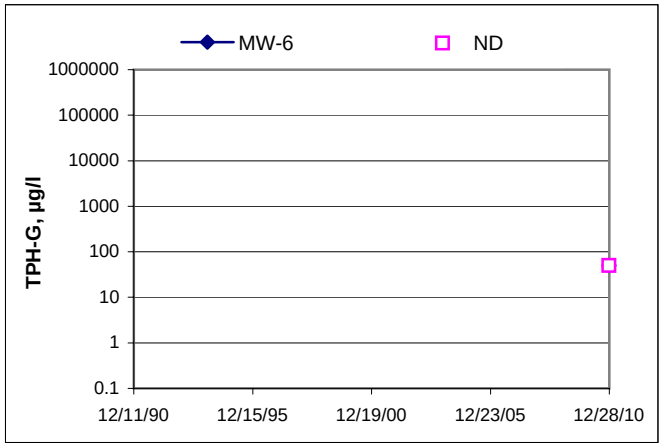


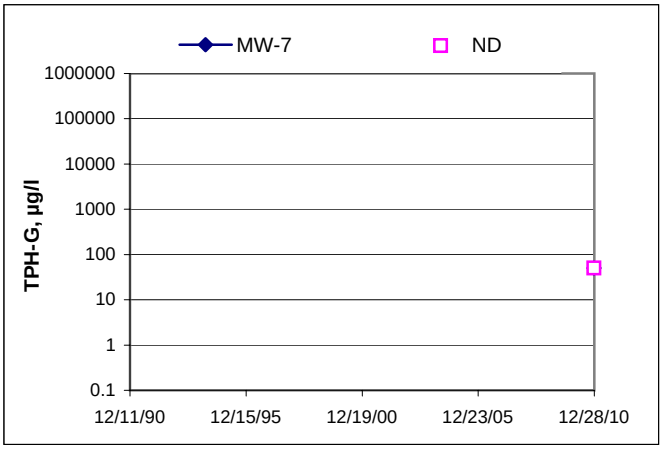
Elevations may have been corrected for apparent changes due to resurvey

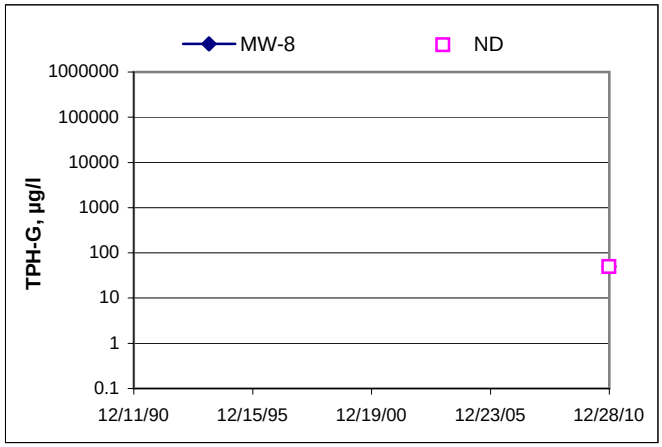
TPH-G Concentrations vs Time
76 Station 5781

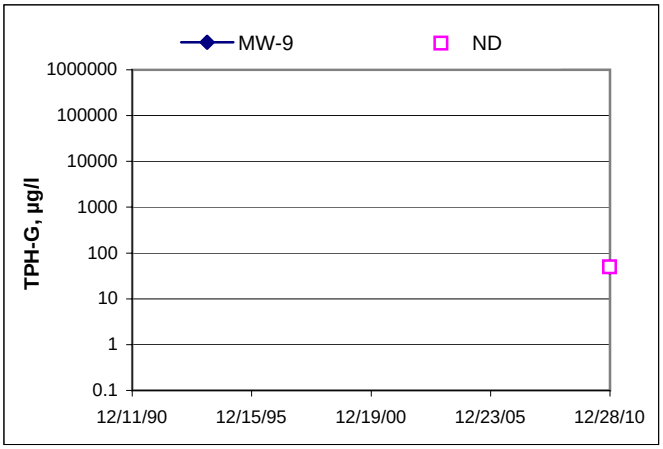


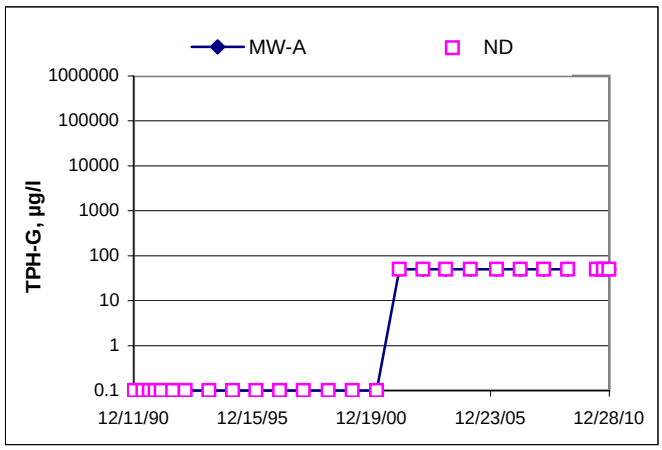




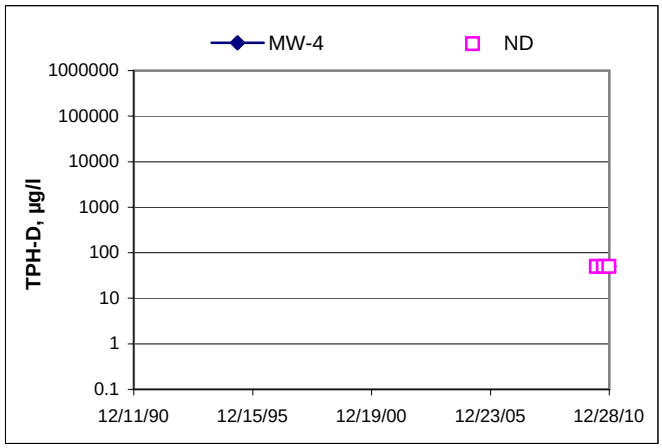


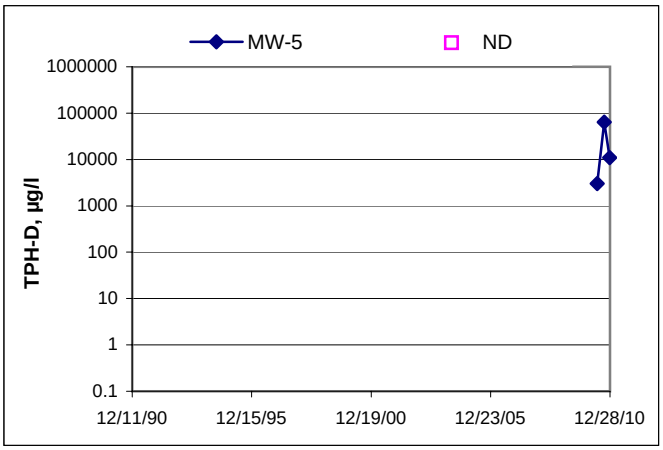


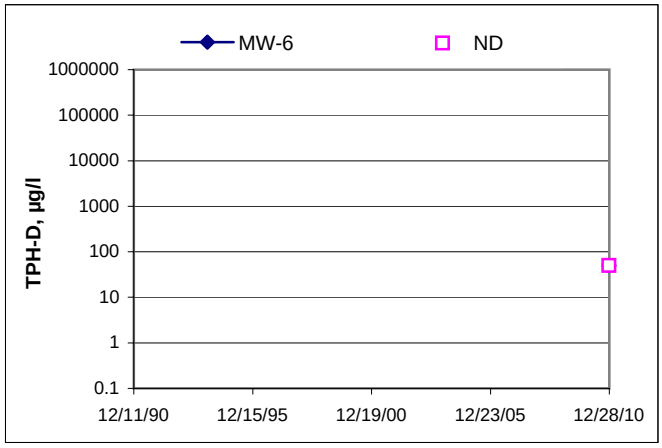


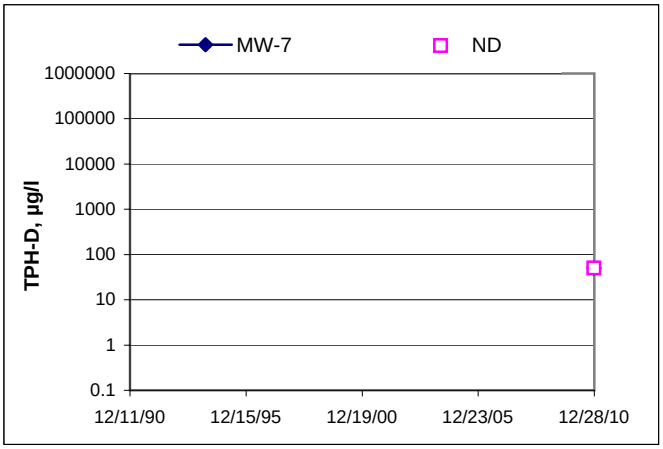


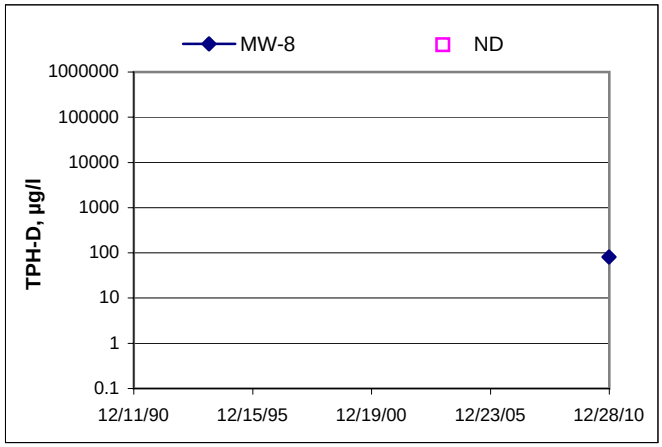
TPH-D Concentrations vs Time
76 Station 5781

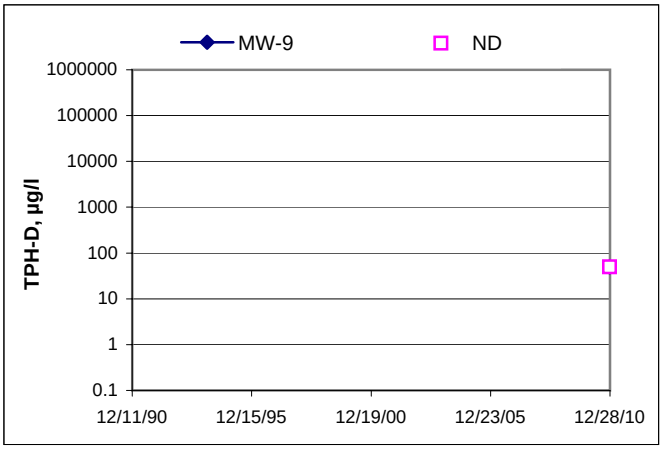


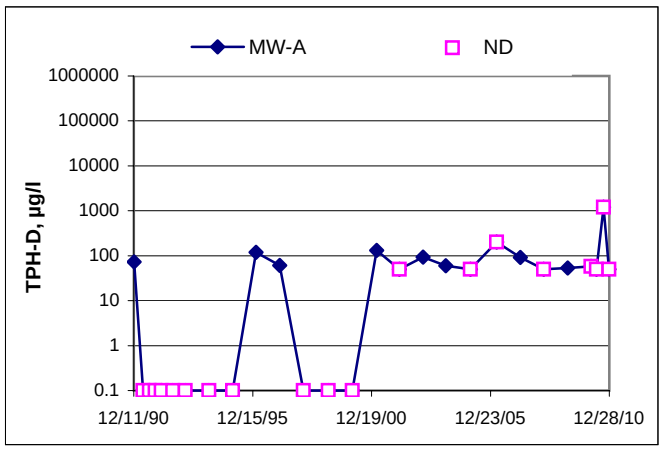












GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging, and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: A. Vickers Job #/Task #: 173845 / FA20 Date: 12/21/10

Site # 5781 Project Manager A. Collins Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-9	✓	0641	19.66	10.53	—	—	0647	2"
MW-8	✓	0655	19.90	11.63	—	—	1040	2"
MW-7	✓	0659	19.68	13.46	—	—	0704	2"
MW-6	✓	0710	19.99	12.10	—	—	0715	2"
MW-A	✓	0725	44.90	14.43	—	—	1150	2"
MW-4	✓	0729	24.74	11.17	—	—	0735	4"
MW-5	✓	0740	19.92	11.17	—	—	1210	4"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidovic

Site: 5781 Project No.: 173845 Date: 12/21/10

Well No. MW-9 Purge Method: HB

Depth to Water (feet): 10.53 Depth to Product (feet): —

Total Depth (feet) 19.66 LPH & Water Recovered (gallons): —

Water Column (feet): 9.13 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 12.36 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0818			2	1811	20.8	6.39			
			4	1778	20.7	6.35			
	0828		6	1756	20.8	6.34			

Static at Time Sampled	Total Gallons Purged	Sample Time
14.39 (2 hours)	6	0647

Comments: Pre-purge sample time: 0647 Well went dry at 6 gallons. Did not recover in 2 hours, used pre-purge sample.

Well No. MW-8 Purge Method: HB

Depth to Water (feet): 11.63 Depth to Product (feet): —

Total Depth (feet) 19.90 LPH & Water Recovered (gallons): —

Water Column (feet): 8.27 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 13.28 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0834			2	1053	20.2	6.45			
			4	990.6	20.3	6.29			
	0844		6	891.5	20.1	6.19			

Static at Time Sampled	Total Gallons Purged	Sample Time
12.01	6	1040

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: J. Vidovs

Site: 5781 Project No.: 173845 Date: 12/21/10

Well No. MW-7 Purge Method: HB

Depth to Water (feet): 13.46 Depth to Product (feet): —

Total Depth (feet) 19.68 LPH & Water Recovered (gallons): —

Water Column (feet): 6.22 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 14.70 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0848	0853		2	3034	20.7	6.28			
			4						
			6						

Static at Time Sampled	Total Gallons Purged	Sample Time
16.36 (2 hours)	3	0704

Comments: Pre-purge sample time: 0704 Well went dry at 3 gallons.
Did not recover in 2 hours, used pre-purge samples.

Well No. MW-6 Purge Method: HB

Depth to Water (feet): 12.10 Depth to Product (feet): —

Total Depth (feet) 19.99 LPH & Water Recovered (gallons): —

Water Column (feet): 7.89 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 13.68 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0923			2	1896	18.0	6.39			
	0931		4	3821	19.4	6.27			
			6						

Static at Time Sampled	Total Gallons Purged	Sample Time
17.89 (2 hours)	4	0715

Comments: Pre-purge sample time: 0715 well went dry at 4 gallons.
Did not recover in 2 hours, used pre-purge samples.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidales

Site: 5781 Project No.: 173845 Date: 12/21/10

Well No. MW-A Purge Method: Sub

Depth to Water (feet): 14.43 Depth to Product (feet): —

Total Depth (feet) 44.90 LPH & Water Recovered (gallons): —

Water Column (feet): 30.47 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 20.52 1 Well Volume (gallons): 6

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0938			6	1455	18.8	6.48			
			12	1555	19.7	6.48			
	0950		18	1502	19.6	6.51			

Static at Time Sampled	Total Gallons Purged	Sample Time
27.97	18	1150

Comments: Did not recover in 2 hours.

Well No. MW-4 Purge Method: Sub

Depth to Water (feet): 11.17 Depth to Product (feet): —

Total Depth (feet) 24.74 LPH & Water Recovered (gallons): —

Water Column (feet): 13.57 Casing Diameter (Inches): 4

80% Recharge Depth(feet): 13.88 1 Well Volume (gallons): 10

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0957	1002		10	900.9	19.9	8.35			
			20						
			30						

Static at Time Sampled	Total Gallons Purged	Sample Time
19.17 (2 hours)	15	0735

Comments: Dry at 15 gallons. Pre-purge sample time: 0735
Did not recover in 2 hours, used pre-purge samples.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidaurs

Site: 5781 Project No.: 173845 Date: 12/21/10

Well No. MW-5 Purge Method: Sub

Depth to Water (feet): 11.17 Depth to Product (feet): —

Total Depth (feet) 19.92 LPH & Water Recovered (gallons): —

Water Column (feet): 8.75 Casing Diameter (Inches): 4

80% Recharge Depth(feet): 12.92 1 Well Volume (gallons): 6

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1010			6	1030	20.4	6.01			
			12	1038	20.6	6.21			
	1020		18	1015	20.6	6.21			

Static at Time Sampled	Total Gallons Purged	Sample Time
11.17	18	1210

Comments: Pre purge sample time : 0747

Well No. Purge Method:

Depth to Water (feet): Depth to Product (feet):

Total Depth (feet) LPH & Water Recovered (gallons):

Water Column (feet): Casing Diameter (Inches):

80% Recharge Depth(feet): 1 Well Volume (gallons):

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 01/14/2011

Anju Farfan

TRC
123 Technology Drive
Irvine, CA 92618

RE: 5781
BC Work Order: 1017971
Invoice ID: B093275

Enclosed are the results of analyses for samples received by the laboratory on 12/21/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

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BC LABORATORIES, INC. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918

CHAIN OF COUSTODY

10-17971

Analysis Requested

Bill to: Conoco Phillips/ TRC	Consultant Firm: TRC
Address: 3535 Pierson St.	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan
City: Oakland	4-digit site#: 5781 Workorder # 01470-451298128
State: CA Zip:	Project #: 173845
Conoco Phillips Mgr: Bill Borgh	Sampler Name: A. Vidiers

MATRIX: (GW) Ground-water (circled); (S) Soil; (WW) Waste-water; (SL) Sludge

Lab#	Sample Description	Field Point Name	Date & Time Sampled	Matrix	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015 w/ silica gel cleanup	8260 full list w/ oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B, EDB/EDC by 8260B	TPH –G by GC/MS	Methanol by 8015			Turnaround Time Requested
-1		MW-9	12/21/10 0647	11		X	X		X	X		X			STD
-2		MW-8	1040	↓		↓	↓		↓	↓		↓			↓
-3		MW-7	0704												
-4		MW-6	0715												
-5		MW-A	1156												
-6		MW-4	0735												
-7		MW-5	1210												

Comments: Please e-mail a copy of the results to Jan Wagoner at Jwagoner@deltaenv.com

GLOBAL ID: T0600101467

Relinquished by: (Signature)	Received by:	Date & Time
[signature]	stored in refridgerator	12/21/10 1400
[signature]	[signature]	12.21.10 1505
[signature] 12-21-10	R [signature]	12.21.10 1747
R [signature] 12.21.10 2100	[signature]	12.21.10 2100

Chain of Custody and Cooler Receipt Form for 1017971 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 10-17971

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity 0.95 Container: VOA Thermometer ID: #163

Temperature: A 3.8 °C / C 3.8 °C

Date/Time 12/21/10 2115

Analyst Init SL

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
P1A PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A16	A16	A16	A16	A16	A16	A16			
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504	B3	B3	B3	B3	B3	B3	B3			
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 631										
QT EPA 8015M										
QT AMBER	CD	CD	CD	CD	CD	CD	CD			
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

CHK BY
DISTRIBUTION
SUB-OUT ☐

Comments:
Sample Numbering Completed By: JLW Date/Time: 12/21/10 2335
A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

TRC
123 Technology Drive
Irvine, CA 92618

Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1017971-01	**COC Number:**	---	**Receive Date:**	12/21/2010 21:00
	Project Number:	5781	**Sampling Date:**	12/21/2010 06:47
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-9	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101467	
			Location ID (FieldPoint): MW-9	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1017971-02	**COC Number:**	---	**Receive Date:**	12/21/2010 21:00
	Project Number:	5781	**Sampling Date:**	12/21/2010 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-8	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101467	
			Location ID (FieldPoint): MW-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1017971-03	**COC Number:**	---	**Receive Date:**	12/21/2010 21:00
	Project Number:	5781	**Sampling Date:**	12/21/2010 07:04
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-7	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101467	
			Location ID (FieldPoint): MW-7	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

TRC
123 Technology Drive
Irvine, CA 92618

Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1017971-04	**COC Number:**	---	**Receive Date:**	12/21/2010 21:00
	Project Number:	5781	**Sampling Date:**	12/21/2010 07:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101467	
			Location ID (FieldPoint): MW-6	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1017971-05	**COC Number:**	---	**Receive Date:**	12/21/2010 21:00
	Project Number:	5781	**Sampling Date:**	12/21/2010 11:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-A	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101467	
			Location ID (FieldPoint): MW-A	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1017971-06	**COC Number:**	---	**Receive Date:**	12/21/2010 21:00
	Project Number:	5781	**Sampling Date:**	12/21/2010 07:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101467	
			Location ID (FieldPoint): MW-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

TRC
123 Technology Drive
Irvine, CA 92618

Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1017971-07	**COC Number:**	---	**Receive Date:**	12/21/2010 21:00
	Project Number:	5781	**Sampling Date:**	12/21/2010 12:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water

Delivery Work Order:
Global ID: T0600101467
Location ID (FieldPoint): MW-5
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

TRC
123 Technology Drive
Irvine, CA 92618

Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1017971-01 | **Client Sample Name:** 5781, MW-9, 12/21/2010 6:47:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	98.9	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	01/03/11	01/10/11 19:40	EJB	GC-12	1	BUA0065

TRC
123 Technology Drive
Irvine, CA 92618

Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1017971-01 | **Client Sample Name:** 5781, MW-9, 12/21/2010 6:47:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**1.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/03/11	01/04/11 11:55	MGC	MS-V5	1	BUA0041

TRC
123 Technology Drive
Irvine, CA 92618

Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1017971-01 | **Client Sample Name:** 5781, MW-9, 12/21/2010 6:47:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	92.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	01/02/11	01/03/11 00:00	jjh	GC-V4	1	BUA0284

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1017971-01 | **Client Sample Name:** 5781, MW-9, 12/21/2010 6:47:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50	Luft/TPHd	ND		1
Tetracosane (Surrogate)	86.6	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	12/30/10	01/13/11 14:30	EJB	GC-5	1	BUA0747

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1017971-02 | **Client Sample Name:** 5781, MW-8, 12/21/2010 10:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	89.4	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	01/03/11	01/10/11 20:02	EJB	GC-12	1	BUA0065

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1017971-02 | **Client Sample Name:** 5781, MW-8, 12/21/2010 10:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**3.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.7	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.8	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/03/11	01/04/11 12:22	MGC	MS-V5	1	BUA0041

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1017971-02 | **Client Sample Name:** 5781, MW-8, 12/21/2010 10:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	01/02/11	01/03/11 00:00	jjh	GC-V4	1	BUA0284

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Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1017971-02 | **Client Sample Name:** 5781, MW-8, 12/21/2010 10:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**81**	**ug/L**	**50**	**Luft/TPHd**	**ND**	**A52**	1
Tetracosane (Surrogate)	84.2	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	12/30/10	01/13/11 14:45	EJB	GC-5	1	BUA0747

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1017971-03 | **Client Sample Name:** 5781, MW-7, 12/21/2010 7:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	63.5	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	01/03/11	01/10/11 20:24	EJB	GC-12	1	BUA0065

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1017971-03 | **Client Sample Name:** 5781, MW-7, 12/21/2010 7:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.6	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/03/11	01/04/11 12:49	MGC	MS-V5	1	BUA0041

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Project Number: 4512981281
Project Manager: Anju Farfan

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1017971-03 | **Client Sample Name:** 5781, MW-7, 12/21/2010 7:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	86.3	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	01/02/11	01/03/11 00:00	jjh	GC-V4	1	BUA0284

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Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1017971-03 | **Client Sample Name:** 5781, MW-7, 12/21/2010 7:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50	Luft/TPHd	ND		1
Tetracosane (Surrogate)	90.0	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	12/30/10	01/13/11 14:59	EJB	GC-5	1	BUA0747

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1017971-04 | **Client Sample Name:** 5781, MW-6, 12/21/2010 7:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	66.2	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	01/03/11	01/10/11 20:45	EJB	GC-12	1	BUA0065

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1017971-04 | **Client Sample Name:** 5781, MW-6, 12/21/2010 7:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**32**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.9	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/03/11	01/04/11 13:16	MGC	MS-V5	1	BUA0041

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1017971-04 | **Client Sample Name:** 5781, MW-6, 12/21/2010 7:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	01/02/11	01/04/11 00:00	jjh	GC-V4	1	BUA0284

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Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1017971-04 | **Client Sample Name:** 5781, MW-6, 12/21/2010 7:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50	Luft/TPHd	ND		1
Tetracosane (Surrogate)	69.8	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	12/30/10	01/13/11 15:14	EJB	GC-5	1	BUA0747

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Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1017971-05 | **Client Sample Name:** 5781, MW-A, 12/21/2010 11:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	55.4	%	60 - 140 (LCL - UCL)	EPA-8015B		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	01/03/11	01/10/11 21:07	EJB	GC-12	1	BUA0065

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1017971-05 | **Client Sample Name:** 5781, MW-A, 12/21/2010 11:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**0.65**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.0	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/03/11	01/04/11 13:43	MGC	MS-V5	1	BUA0041

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1017971-05 | **Client Sample Name:** 5781, MW-A, 12/21/2010 11:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	98.6	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	01/02/11	01/04/11 00:00	jjh	GC-V4	1	BUA0284

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1017971-05 | **Client Sample Name:** 5781, MW-A, 12/21/2010 11:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50	Luft/TPHd	ND		1
Tetracosane (Surrogate)	78.6	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	12/30/10	01/13/11 15:28	EJB	GC-5	1	BUA0747

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Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1017971-06 | **Client Sample Name:** 5781, MW-4, 12/21/2010 7:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	54.4	%	60 - 140 (LCL - UCL)	EPA-8015B		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	01/03/11	01/10/11 21:29	EJB	GC-12	1	BUA0065

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Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1017971-06 | **Client Sample Name:** 5781, MW-4, 12/21/2010 7:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/04/11	01/04/11 14:10	MGC	MS-V5	1	BUA0128

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Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1017971-06 | **Client Sample Name:** 5781, MW-4, 12/21/2010 7:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	89.7	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	01/02/11	01/04/11 00:00	jjh	GC-V4	1	BUA0284

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Project Number: 4512981281
Project Manager: Anju Farfan

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1017971-06 | **Client Sample Name:** 5781, MW-4, 12/21/2010 7:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	50	Luft/TPHd	ND		1
Tetracosane (Surrogate)	83.6	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	12/30/10	01/13/11 15:43	EJB	GC-5	1	BUA0747

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Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Solvent Scan (EPA Method 8015)

BCL Sample ID: 1017971-07 | **Client Sample Name:** 5781, MW-5, 12/21/2010 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methanol	ND	ug/L	100	EPA-8015B	ND		1
2-Chloroacrylonitrile (Surrogate)	71.7	%	60 - 140 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	01/03/11	01/10/11 21:50	EJB	GC-12	1	BUA0065

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Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1017971-07 | **Client Sample Name:** 5781, MW-5, 12/21/2010 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**81**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01**	1
1,2-Dibromoethane	ND	ug/L	50	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	50	EPA-8260	ND	A01	1
Ethylbenzene	**2200**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01**	1
Methyl t-butyl ether	ND	ug/L	50	EPA-8260	ND	A01	1
Toluene	**4800**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01**	1
Total Xylenes	**22000**	**ug/L**	**100**	**EPA-8260**	**ND**	**A01**	1
t-Amyl Methyl ether	ND	ug/L	50	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	ug/L	1000	EPA-8260	ND	A01	1
Diisopropyl ether	ND	ug/L	50	EPA-8260	ND	A01	1
Ethanol	ND	ug/L	25000	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	50	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/04/11	01/04/11 16:52	MGC	MS-V5	100	BUA0128

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Reported: 01/14/2011 12:42
Project: 5781
Project Number: 4512981281
Project Manager: Anju Farfan

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1017971-07 | **Client Sample Name:** 5781, MW-5, 12/21/2010 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**50000**	**ug/L**	**1000**	**Luft**	**ND**	**A01,S01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	01/02/11	01/04/11 00:00	jjh	GC-V4	20	BUA0284

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Project Manager: Anju Farfan

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1017971-07 | **Client Sample Name:** 5781, MW-5, 12/21/2010 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**11000**	**ug/L**	**1200**	**Luft/TPHd**	**ND**	**A01,A52**	1
Tetracosane (Surrogate)	0	%	28 - 139 (LCL - UCL)	Luft/TPHd		A01,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	12/30/10	01/14/11 10:14	EJB	GC-5	24.500	BUA0747

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Solvent Scan (EPA Method 8015)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA0065						
Methanol	BUA0065-BLK1	ND	ug/L	100		
2-Chloroacrylonitrile (Surrogate)	BUA0065-BLK1	56.5	%	60 - 140 (LCL - UCL)		S09

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Solvent Scan (EPA Method 8015)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUA0065										
Methanol	BUA0065-BS1	LCS	3092.5	2000.0	ug/L	155		50 - 150		L21
2-Chloroacrylonitrile (Surrogate)	BUA0065-BS1	LCS	1497.2	4000.0	ug/L	37.4		60 - 140		L21

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Solvent Scan (EPA Method 8015)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUA0065	Used client sample: N										
Methanol	MS	1016633-22	ND	2629.2	2000.0	ug/L		131		50 - 150	
	MSD	1016633-22	ND	2327.3	2000.0	ug/L	12.2	116	30	50 - 150	
2-Chloroacrylonitrile (Surrogate)	MS	1016633-22	ND	2120.5	4000.0	ug/L		53.0		60 - 140	Q03
	MSD	1016633-22	ND	2659.1	4000.0	ug/L	22.5	66.5		60 - 140	

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA0041						
Benzene	BUA0041-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BUA0041-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUA0041-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUA0041-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUA0041-BLK1	ND	ug/L	0.50		
Toluene	BUA0041-BLK1	ND	ug/L	0.50		
Total Xylenes	BUA0041-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BUA0041-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BUA0041-BLK1	ND	ug/L	10		
Diisopropyl ether	BUA0041-BLK1	ND	ug/L	0.50		
Ethanol	BUA0041-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BUA0041-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BUA0041-BLK1	104	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUA0041-BLK1	97.7	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUA0041-BLK1	97.2	%	86 - 115 (LCL - UCL)		
QC Batch ID: BUA0128						
Benzene	BUA0128-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BUA0128-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUA0128-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUA0128-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUA0128-BLK1	ND	ug/L	0.50		
Toluene	BUA0128-BLK1	ND	ug/L	0.50		
Total Xylenes	BUA0128-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BUA0128-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BUA0128-BLK1	ND	ug/L	10		
Diisopropyl ether	BUA0128-BLK1	ND	ug/L	0.50		
Ethanol	BUA0128-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BUA0128-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BUA0128-BLK1	97.2	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUA0128-BLK1	98.9	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUA0128-BLK1	95.6	%	86 - 115 (LCL - UCL)		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUA0041										
Benzene	BUA0041-BS1	LCS	27.820	25.000	ug/L	111		70 - 130		
Toluene	BUA0041-BS1	LCS	26.080	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUA0041-BS1	LCS	9.7300	10.000	ug/L	97.3		76 - 114		
Toluene-d8 (Surrogate)	BUA0041-BS1	LCS	9.8100	10.000	ug/L	98.1		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUA0041-BS1	LCS	9.6500	10.000	ug/L	96.5		86 - 115		
QC Batch ID: BUA0128										
Benzene	BUA0128-BS1	LCS	27.140	25.000	ug/L	109		70 - 130		
Toluene	BUA0128-BS1	LCS	25.760	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUA0128-BS1	LCS	9.7700	10.000	ug/L	97.7		76 - 114		
Toluene-d8 (Surrogate)	BUA0128-BS1	LCS	10.020	10.000	ug/L	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUA0128-BS1	LCS	9.8700	10.000	ug/L	98.7		86 - 115		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUA0041	Used client sample: N										
Benzene	MS	1018163-01	0.14000	29.330	25.000	ug/L		117		70 - 130	
	MSD	1018163-01	0.14000	28.020	25.000	ug/L	4.6	112	20	70 - 130	
Toluene	MS	1018163-01	0.17000	27.420	25.000	ug/L		109		70 - 130	
	MSD	1018163-01	0.17000	26.580	25.000	ug/L	3.1	106	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1018163-01	ND	9.7300	10.000	ug/L		97.3		76 - 114	
	MSD	1018163-01	ND	9.6700	10.000	ug/L	0.6	96.7		76 - 114	
Toluene-d8 (Surrogate)	MS	1018163-01	ND	9.9900	10.000	ug/L		99.9		88 - 110	
	MSD	1018163-01	ND	9.9000	10.000	ug/L	0.9	99.0		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1018163-01	ND	9.3800	10.000	ug/L		93.8		86 - 115	
	MSD	1018163-01	ND	9.8200	10.000	ug/L	4.6	98.2		86 - 115	
QC Batch ID: BUA0128	Used client sample: Y - Description: MW-4, 12/28/2010 15:45										
Benzene	MS	1018292-02	ND	28.280	25.000	ug/L		113		70 - 130	
	MSD	1018292-02	ND	27.730	25.000	ug/L	2.0	111	20	70 - 130	
Toluene	MS	1018292-02	ND	27.010	25.000	ug/L		108		70 - 130	
	MSD	1018292-02	ND	26.640	25.000	ug/L	1.4	107	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1018292-02	ND	9.7600	10.000	ug/L		97.6		76 - 114	
	MSD	1018292-02	ND	9.8500	10.000	ug/L	0.9	98.5		76 - 114	
Toluene-d8 (Surrogate)	MS	1018292-02	ND	10.030	10.000	ug/L		100		88 - 110	
	MSD	1018292-02	ND	9.8500	10.000	ug/L	1.8	98.5		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1018292-02	ND	10.010	10.000	ug/L		100		86 - 115	
	MSD	1018292-02	ND	9.5400	10.000	ug/L	4.8	95.4		86 - 115	

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA0284						
Gasoline Range Organics (C4 - C12)	BUA0284-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BUA0284-BLK1	87.6	%	70 - 130 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUA0284										
Gasoline Range Organics (C4 - C12)	BUA0284-BS1	LCS	952.91	1000.0	ug/L	95.3		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BUA0284-BS1	LCS	38.276	40.000	ug/L	95.7		70 - 130		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUA0284	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1016633-88	ND	867.70	1000.0	ug/L		86.8		70 - 130	
	MSD	1016633-88	ND	885.84	1000.0	ug/L	2.1	88.6	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1016633-88	ND	36.745	40.000	ug/L		91.9		70 - 130	
	MSD	1016633-88	ND	37.329	40.000	ug/L	1.6	93.3		70 - 130	

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA0747						
Diesel Range Organics (C12 - C24)	BUA0747-BLK1	ND	ug/L	50		
Tetracosane (Surrogate)	BUA0747-BLK1	85.2	%	28 - 139 (LCL - UCL)		

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUA0747										
Diesel Range Organics (C12 - C24)	BUA0747-BS1	LCS	387.17	500.00	ug/L	77.4		48 - 125		
Tetracosane (Surrogate)	BUA0747-BS1	LCS	16.184	20.000	ug/L	80.9		28 - 139		

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUA0747	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1016633-04	ND	355.18	500.00	ug/L		71.0		36 - 130	
	MSD	1016633-04	ND	424.85	500.00	ug/L	17.9	85.0	30	36 - 130	
Tetracosane (Surrogate)	MS	1016633-04	ND	15.442	20.000	ug/L		77.2		28 - 139	
	MSD	1016633-04	ND	17.195	20.000	ug/L	10.7	86.0		28 - 139	

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Project: 5781
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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A17	Surrogate not reportable due to sample dilution.
A52	Chromatogram not typical of diesel.
L21	The Laboratory Control Sample Soil (LCSS) recovery is not within laboratory established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S01	Sample result is not within the quantitation range of the method.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

STATEMENTS

Purge Water Disposal

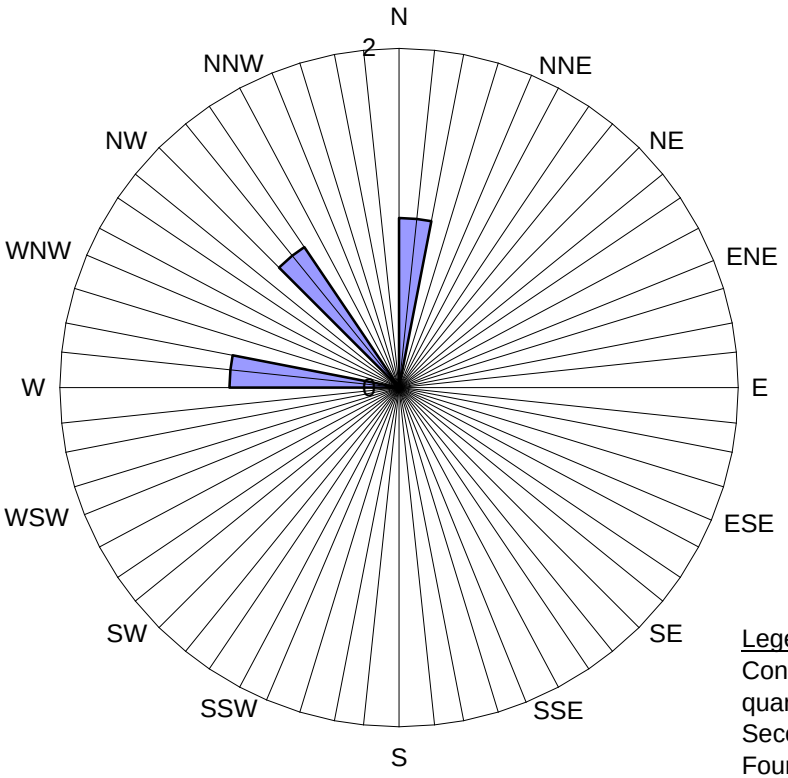
Non-hazardous groundwater produced during purging and sampling of monitoring wells is accumulated at TRC's groundwater monitoring field office at Concord, California, for transportation by a licensed carrier to an authorized disposal facility. Currently, non-hazardous purge water is transported under a bulk non-hazardous waste manifest to Crosby and Overton, Inc. in Long Beach, California.

Limitations

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.

Attachment C-
Rose Diagram

Historic Groundwater Flow Directions
ConocoPhillips Site No. 5781
3535 Pierson Street
Oakland, California



Legend
Concentric circles represent quarterly montoring events.
Second Quarter 2010 through Fourth Quarter 2010.
3 data points shown.

Groundwater Flow Direction

Attachment D-
ACPWA Permit

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 10/27/2010 By jamesy

Permit Numbers: W2010-0783 to W2010-0786
Permits Valid from 11/03/2010 to 11/05/2010

Application Id: 1288046630182 **City of Project Site:** Oakland
Site Location: 3535 Pierson St, Oakland, CA
Project Start Date: 11/03/2010 **Completion Date:** 11/05/2010
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: Delta - Jan Wagoner **Phone:** 916-709-8725
11050 White Rock Rd, Ste 110, Rancho Cordova, CA 95670
Property Owner: Delong Lui **Phone:** 510-437-9837
3535 Pierson St., Oakland, CA 94612
Client: Bill Borgh Conoco Phillips **Phone:** 916-558-7604
76 Broadway, Sacramento, CA 94612

Total Due: $1588.00
Receipt Number: WR2010-0363 **Total Amount Paid:** $1588.00
Payer Name : Delta Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 4 Wells
Driller: Cascade - Lic #: 57932633 - Method: hstem **Work Total: $1588.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-0783	10/27/2010	02/01/2011	MW6	8.00 in.	2.00 in.	10.00 ft	20.00 ft
W2010-0784	10/27/2010	02/01/2011	MW7	8.00 in.	2.00 in.	10.00 ft	20.00 ft
W2010-0785	10/27/2010	02/01/2011	MW8	8.00 in.	2.00 in.	10.00 ft	20.00 ft
W2010-0786	10/27/2010	02/01/2011	MW9	8.00 in.	2.00 in.	10.00 ft	20.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

Attachment E -
Boring Logs & Well Construction Details

DELTA

Project No: C105781071	Client:ConocoPhillips	Well/ Boring ID: MW-6
Logged By: Caitlin Morgan	Location: 3535 Pierson St, Oakland, CA	Page 1
Driller: Cascade	Date Drilled: 11/05/10	Location Map
Drilling Method:HSA	Hole Diameter: 8"	
Sampling Method: Split Spoon	Hole Depth: 20'	
Casing Type: Sched. 40 PVC	Well Diameter: 2"	
Slot Size: 0.010	Well Depth:20'	
Sand/Gravel Pack: RMC Lonestar 2/16	Casing Stickup: NA	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Variance approved to place well within 5' of a vent line and 5' from the overhang of the station canopy. Also, variance to drill 1-2 feet off the edge of concrete covering the tank pit.
Neat Cement					1			Airknifed	
					2				**Clayey sand;** (tan); some angular to sub angular gravel present.
					3				
					4				
					5				
		Moist	0					ML	**Sandy Silt with Gravel;** brown-tan.
					6				
Hydrated Bentonite					7				
					8				
					9				
					10				
		Moist	0					GC	**Clayey Gravel;** black, brown, orange; firm.
					11				
					12				
								SC	**Clayey Sand;** brown-tan; pea to thumb sized; less gravel than above.
					13				
Sand	▽	Sat.	0		14			CL	**Lean Clay;** brown-gray.
					15			CL	Same as above.
					16				
					17				
					18				
					19				
		Moist	0		20			CL	Same as above.
					21				**BORING TERMINATED AT 20 FEET BGS.** First water encountered at 14 feet bgs.
					22				

DELTA

Project No: C105781071	Client:ConocoPhillips	Well/ Boring ID: MW-7
Logged By: Caitlin Morgan	Location: 3535 Pierson Street, Oakland, CA	Page 1
Driller: Cascade	Date Drilled: 11/05/10	Location Map
Drilling Method:HSA	Hole Diameter: 8"	
Sampling Method: Split Spoon	Hole Depth: 20'	
Casing Type: Sched. 40 PVC	Well Diameter: 2"	
Slot Size: 0.010	Well Depth:20'	
Sand/Gravel Pack: RMC Lonestar 2/16	Casing Stickup: NA	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	Neat Cement	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Variance approved to place well within 5' of both electrical and water lines running from the station building to the dispenser islands.
Neat Cement					1				
					2			Airknifed.	**Sandy Lean Clay;** brown-orange.
					3				
					4				
					5				
		Moist	0					CL	**Sandy Lean Clay;** brown-orange;medium plasticity.
					6				
					7				
Hydrated Bentonite					8				
					9				
					10				
		Moist	0					CL	**Lean Clay with Sand;** black with gray smearing and orange mottling; medium plasticity.
					11				
					12				
					13				
					14				
Sand	▽	Sat	0		15			CL	**Same as above,** with increased sands.
					16				
					17				
					18				
					19				
		Moist	0		20			CL	**Sandy Lean Clay;** gray; more dry. Not a full recovery.
					21				**BORING TERMINATED AT 20 FEET BGS.**
					22				First water encountered at 15' bgs.

Project No: C105781071	Client:ConocoPhillips		Well/ Boring ID: MW-8
Logged By: Caitlin Morgan	Location: 3535 Pierson Street, Oakland, CA		Page 1
Driller: Cascade	Date Drilled: 11/05/10	Location Map	
Drilling Method:HSA	Hole Diameter: 8"		
Sampling Method: Split Spoon	Hole Depth: 20'		
Casing Type: Sched. 40 PVC	Well Diameter: 2"		
Slot Size: 0.010	Well Depth:20'		
Sand/Gravel Pack: RMC Lonestar 2/16	Casing Stickup: NA		

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									3" Concrete removed. Rebharb cut with saw tool.
Neat Cement					1			Airknifed	Clayey sand with gravel; black.
					2				Same as above.
					3				Same as above with more red.
					4				Clayey sand. Boring cleared to 5' with no sub surface obstructions.
					5			SC	**Clayey Sand with Gravel;** black with some red mottling.
		Moist	0		6				
Hydrated Bentonite					7				
					8				
					9				
		Moist			10			SC	**Clayey Sand with Silt and Gravel;** gray with interbeds of black coloring.
					11				
					12				
	△				13			GC	**Clayey Gravel;** black, brown, orange; firm.
Sand					14				
		Sat.			15			GC	Same as above.
					16				
					17				
					18				
					19				
		Moist			20			CL	**Lean Clay;** brown-gray; some larger gravel.
									BORING TERMINATED AT 20 FEET.
					21				First water encountered at 13 feet bgs.
					22				

Project No: C105781071	Client:ConocoPhillips	Well/ Boring ID: MW-9
Logged By: Caitlin Morgan	Location: 3535 Pierson St, Oakland, CA	Page 1
Driller: Cascade	Date Drilled: 11/05/2010	Location Map
Drilling Method:HSA	Hole Diameter: 8"	
Sampling Method: Split Spoon	Hole Depth: 20'	
Casing Type: Sched. 40 PVC	Well Diameter: 2"	
Slot Size: 0.010	Well Depth:20'	
Sand/Gravel Pack: RMC Lonestar 2/16	Casing Stickup: NA	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Variance approved to place well within 3-4 feet of a water line and six feet from an electrical line.
Neat Cement					1			Airknifed	
					2				
					3				**Clayey Sand with Gravel;** tan, orange.
					4				
					5				
		Moist	0					**SC**	**Clayey Sand with Gravel;** tan, orange.
					6				
					7				
Hydrated Bentonite					8				
					9				
					10				
		Moist	0					**SC**	**Clayey Sand;** tan and black; soft; high plasticity. Not a full recovery.
					11				
					12				
		△ Sat.			13				
Sand					14				
					15				
		Moist	0					**SC**	**Clayey Sand with Gravel;** coarse, pea to thumb sized gravel.
					16				
					17				
					18				
					19				
		Moist	0		20			**CL**	**Lean Clay;** gray; some small grain sand; soft.
									BORING TERMINATED AT 20 FEET BGS.
					21				First water encountered at 13 feet bgs.
					22				

Attachment F-
Laboratory Reports

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 11/18/2010

Jan Wagoner

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 5781
BC Work Order: 1015751
Invoice ID: B090282

Enclosed are the results of analyses for samples received by the laboratory on 11/9/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

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10-15751

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: TERRY GRAYSON

INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips Work Order Number: ~~000010111210-00005~~
~~ConocoPhillips Cost Object~~: R00001011210-0001

DATE: November 9, 2010
PAGE: 1 of 2

SAMPLING COMPANY: Delta Consultants	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 5781 P0451431086D	GLOBAL ID NO.: T0600101467
ADDRESS: 11050 White Rock Road, Suite 110 Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 3535 Pierson Street, Oakland, CA	CONOCOPHILLIPS SITE MANAGER: ~~TERRY GRAYSON~~ Bill Borgh CPM
PROJECT CONTACT (Hardcopy or PDF Report to): JAN WAGONER		PHONE NO.:	EMAIL: bill.borgh@conocophillips.com
TELEPHONE: (916) 503-1275	FAX: 916-638-8385	E-MAIL: Jwagoner@deltaenv.com	LAB USE ONLY
SAMPLER NAME(S) (Print): Caitlin Morgan CPM	CONSULTANT PROJECT NUMBER: C10578107~~1~~ CPM -C105781071		

TURNAROUND TIME (CALENDAR DAYS): ☐ 14 DAYS ☑ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

Cc: Cmorgan@deltaenv.com on analytical results.

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

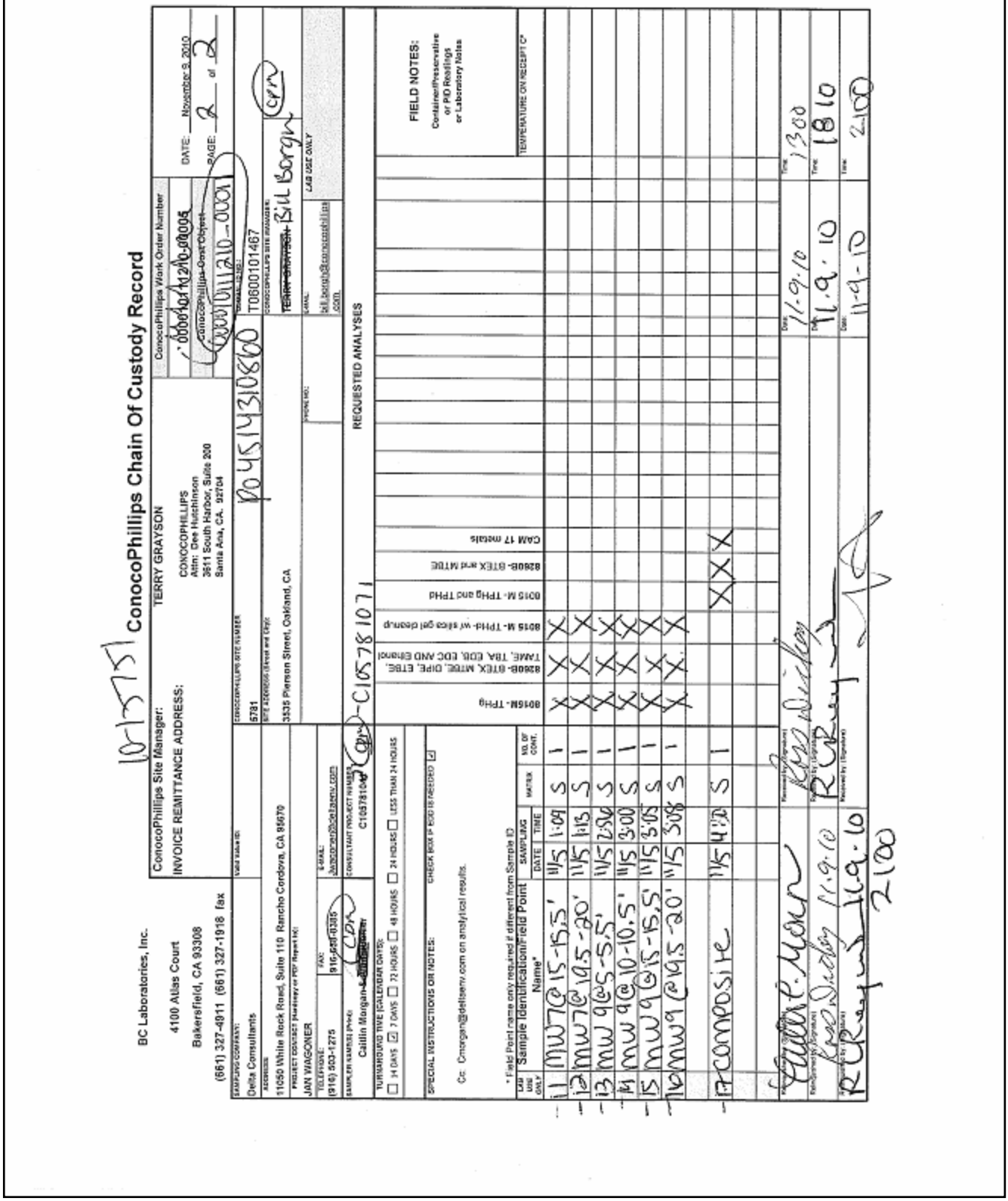
LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015M- TPHg	8260B- BTEX, MTBE, DIPE, ETBE, TAME, TBA, EDB, EDC AND Ethanol	8015 M- TPHd - w/ silica gel cleanup	8015 M- TPHg and TPHd	8260B- BTEX and MTBE	CAM 17 metals	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
1	MW8@5.5-6'	11/5	9:00	S	1	X	X	X				
2	MW8@10-10.5'	11/5	9:07	S	1	X	X	X				
3	MW8@15-15.5'	11/5	9:14	S	1	X	X	X				
4	MW8@19.5-20'	11/5	9:20	S	1	X	X	X				
5	MW6@5.5-6'	11/5	10:40	S	1	X	X	X				
6	MW6@10-10.5'	11/5	10:44	S	1	X	X	X				
7	MW6@15-15.5'	11/5	10:49	S	1	X	X	X				
8	MW6@19.5-20'	11/5	10:53	S	1	X	X	X				
9	MW7@5.5-6'	11/5	1:00	S	1	X	X	X				
10	MW7@10-10.5'	11/5	1:04	S	1	X	X	X				

TEMPERATURE ON RECEIPT C°

CHK BY / DISTRIBUTION / SUB-OUT ☐

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Caitlin Morgan	Ross Wedley	11-9-10	1300
Ross Wedley 11-9-10	R L Riley	11-9-10	1810
R L Riley 11-9-10 2100		11-9-10	2100

Chain of Custody and Cooler Receipt Form for 1015751 Page 2 of 4



BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

1015751

ConocoPhillips Chain Of Custody Record

ConocoPhillips Site Manager: TERRY GRAYSON
INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS Attn: Dee Hutchinson 3611 South Harbor, Suite 200 Santa Ana, CA. 92704
ConocoPhillips Work Order Number: 0004014210-00004 (ConocoPhillips Cost Object)
DATE: November 9, 2010
PAGE: 2 of 2

PO 4514310860

SAMPLING COMPANY: Delta Consultants
CONOCOPHILLIPS SITE NUMBER: 5781
CONOCOPHILLIPS SITE MANAGER: TERRY GRAYSON
ADDRESS: 11050 White Rock Road, Suite 110 Rancho Cordova, CA 95670
SITE ADDRESS (Street and City): 3535 Pierson Street, Oakland, CA
PROJECT CONTACT (Hardcopy or PDF Report to): JAN WAGONER
TELEPHONE: (916) 503-1275
FAX:
E-MAIL: jwagoner@deltaenv.com
PHONE NO:
E-MAIL: bill.borgyn@conocophillips.com
SAMPLER NAME(S) PRINT: Caitlin Morgan
CONSULTANT PROJECT MANAGER: C10578107
TURNAROUND TIME (CALENDAR DAYS): ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 7 DAYS ☑ 14 DAYS ☐ LESS THAN 24 HOURS
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS REQUIRED ☑
Cc: Cmorgan@deltaenv.com on analytical results.
* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015M - TPHg	8260B - BTEX, MTBE, DIPE, ETBE, TAME, TBA, EDB, EDC AND Ethanol	8015 M - TPHd- w/ silica gel cleanup	8015 M - TPHg and TPHd	8260B - BTEX and MTBE	CAM 17 metals	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
11	MW7@15-15.5'	11/5	1:09	S	1	X	X	X				
12	mw7@19.5-20'	11/5	1:15	S	1	X	X	X				
13	MW 9@5-5.5'	11/5	2:52	S	1	X	X	X				
14	MW 9@10-10.5'	11/5	3:00	S	1	X	X	X				
15	MW 9@15-15.5'	11/5	3:05	S	1	X	X	X				
16	MW9 @19.5-20'	11/5	3:08	S	1	X	X	X				
17	COMPOSITE	11/5	4:20	S	1				X	X	X	

TEMPERATURE ON RECEIPT C°

Relinquished by (Signature)	Date	Time
Caitlin P. Morgan	11.9.10	1300
Received by (Signature)	Date	Time
Kyle Dudley	11.9.10	1810
Relinquished by (Signature)	Date	Time
RCBorgyn	11-9-10	2100
Received by (Signature)		

2100

Chain of Custody and Cooler Receipt Form for 1015751 Page 3 of 4

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 10-15751

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity 0.95 Container QTPP Thermometer ID: #163

Temperature: A 3.1 °C / C 3.7 °C

Date/Time 11/9/10 2100

Analyst Init SL

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE	A	A	A	A	A	A	A	A	A	A
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: -13 DESCRIPTION ON BOTTLE SAYS "5.5-6"
Sample Numbering Completed By: JDW Date/Time: 11/9/10 2140
A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Chain of Custody and Cooler Receipt Form for 1015751 Page 4 of 4

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 06/24/08 Page 4 Of 4

Submission #: 10-15757

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑YES ☐ NO

Emissivity: 0.95 Container: QTPR Thermometer ID: #163

Temperature: A 3.7 °C / C 3.7 °C

Date/Time: 11/9/10 2100

Analyst Init: SV

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE	A	A	A	A	A	A	A			
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:_____
Sample Numbering Completed By: JDW Date/Time: 11/9/10 2140
A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SANREC2.WPD]

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1015751-01	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 09:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-8@5.5-6'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-8
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-02	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 09:07
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-8@10-10.5'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-8
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-03	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 09:14
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-8@15-15.5'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-8
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-04	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 09:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-8@19.5-20'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-8
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1015751-05	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 10:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6@5.5-6'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-6
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-06	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 10:44
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6@10-10.5'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-6
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-07	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 10:49
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6@15-15.5'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-6
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-08	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 10:53
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6@19.5-20'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-6
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1015751-09	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 01:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7@5.5-6'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-7
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-10	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 01:04
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7@10-10.5'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-7
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-11	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 01:09
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7@15-15.5'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-7
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-12	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 01:13
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7@19.5-20'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-7
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1015751-13	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 02:56
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9@5-5.5'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-9
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-14	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 03:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9@10-10.5'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-9
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-15	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 03:05
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9@15-15.5'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-9
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1015751-16	**COC Number:**	---	**Receive Date:** 11/09/2010 21:00
	Project Number:	5781	**Sampling Date:** 11/05/2010 03:08
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9@19.5-20'	**Sample Matrix:** Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101467
			Location ID (FieldPoint): MW-9
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1015751-17

COC Number: ---
Project Number: 5781
Sampling Location: ---
Sampling Point: Composite
Sampled By: DECR

Receive Date: 11/09/2010 21:00
Sampling Date: 11/05/2010 04:30
Sample Depth: ---
Sample Matrix: Solids
Delivery Work Order:
Global ID: T0600101467
Location ID (FieldPoint): COMP
Matrix: SO
Sample QC Type (SACode): CS
Cooler ID:

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-01 | **Client Sample Name:** 5781, MW-8@5.5-6', 11/5/2010 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.5	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	92.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/10/10 22:18	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-01 | **Client Sample Name:** 5781, MW-8@5.5-6', 11/5/2010 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/16/10 13:15	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-01 | **Client Sample Name:** 5781, MW-8@5.5-6', 11/5/2010 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	114	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/16/10 22:51	EJB	GC-5	0.993	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-02 | **Client Sample Name:** 5781, MW-8@10-10.5', 11/5/2010 9:07:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.8	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/10/10 22:44	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-02 | **Client Sample Name:** 5781, MW-8@10-10.5', 11/5/2010 9:07:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/12/10 12:32	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-02 | **Client Sample Name:** 5781, MW-8@10-10.5', 11/5/2010 9:07:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	113	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/16/10 23:06	EJB	GC-5	0.997	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-03 | **Client Sample Name:** 5781, MW-8@15-15.5', 11/5/2010 9:14:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.5	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.8	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/10/10 23:10	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-03 | **Client Sample Name:** 5781, MW-8@15-15.5', 11/5/2010 9:14:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/16/10 13:45	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-03 | **Client Sample Name:** 5781, MW-8@15-15.5', 11/5/2010 9:14:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	109	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/16/10 23:20	EJB	GC-5	1	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-04 | **Client Sample Name:** 5781, MW-8@19.5-20', 11/5/2010 9:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.8	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.4	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/10/10 23:36	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-04 | **Client Sample Name:** 5781, MW-8@19.5-20', 11/5/2010 9:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	99.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/16/10 14:16	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-04 | **Client Sample Name:** 5781, MW-8@19.5-20', 11/5/2010 9:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	106	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/16/10 23:35	EJB	GC-5	1	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-05 | **Client Sample Name:** 5781, MW-6@5.5-6', 11/5/2010 10:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.3	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 00:02	MCQ	MS-V3	1	BTK0859

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-05 | **Client Sample Name:** 5781, MW-6@5.5-6', 11/5/2010 10:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	92.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/12/10 14:03	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-05 | **Client Sample Name:** 5781, MW-6@5.5-6', 11/5/2010 10:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**11**	**mg/kg**	**2.0**	**Luft/TPHd**	**ND**	**A52**	1
Tetracosane (Surrogate)	120	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 15:28	EJB	GC-5	1	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-06 | **Client Sample Name:** 5781, MW-6@10-10.5', 11/5/2010 10:44:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.2	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 00:28	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-06 | **Client Sample Name:** 5781, MW-6@10-10.5', 11/5/2010 10:44:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	100	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/16/10 23:32	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-06 | **Client Sample Name:** 5781, MW-6@10-10.5', 11/5/2010 10:44:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND	A52	1
Tetracosane (Surrogate)	97.8	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 00:04	EJB	GC-5	0.997	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-07 | **Client Sample Name:** 5781, MW-6@15-15.5', 11/5/2010 10:49:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.3	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 00:54	MCQ	MS-V3	1	BTK0859

Delta Environmental Consultants, Inc.
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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-07 | **Client Sample Name:** 5781, MW-6@15-15.5', 11/5/2010 10:49:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	93.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/12/10 15:04	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-07 | **Client Sample Name:** 5781, MW-6@15-15.5', 11/5/2010 10:49:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	113	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 00:18	EJB	GC-5	1	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-08 | **Client Sample Name:** 5781, MW-6@19.5-20', 11/5/2010 10:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	**0.020**	**mg/kg**	**0.0050**	**EPA-8260**	**ND**		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.1	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 01:20	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-08 | **Client Sample Name:** 5781, MW-6@19.5-20', 11/5/2010 10:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	90.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/12/10 15:35	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-08 | **Client Sample Name:** 5781, MW-6@19.5-20', 11/5/2010 10:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	109	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 00:32	EJB	GC-5	0.993	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-09 | **Client Sample Name:** 5781, MW-7@5.5-6', 11/5/2010 1:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.5	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.8	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 01:46	MCQ	MS-V3	1	BTK0859

Delta Environmental Consultants, Inc.
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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-09 | **Client Sample Name:** 5781, MW-7@5.5-6', 11/5/2010 1:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	90.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/12/10 16:05	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-09 | **Client Sample Name:** 5781, MW-7@5.5-6', 11/5/2010 1:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**12**	**mg/kg**	**2.0**	**Luft/TPHd**	**ND**	**A52**	1
Tetracosane (Surrogate)	117	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 15:42	EJB	GC-5	0.997	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-10 | **Client Sample Name:** 5781, MW-7@10-10.5', 11/5/2010 1:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	93.6	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	71.6	%	74 - 121 (LCL - UCL)	EPA-8260		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 02:12	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-10 | **Client Sample Name:** 5781, MW-7@10-10.5', 11/5/2010 1:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	98.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/16/10 23:02	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-10 | **Client Sample Name:** 5781, MW-7@10-10.5', 11/5/2010 1:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	98.7	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 01:01	EJB	GC-5	1	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-11 | **Client Sample Name:** 5781, MW-7@15-15.5', 11/5/2010 1:09:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.6	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.6	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.2	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 05:15	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-11 | **Client Sample Name:** 5781, MW-7@15-15.5', 11/5/2010 1:09:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	99.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/09/10	11/16/10 09:41	JJH	GC-V8	1	BTK0729

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-11 | **Client Sample Name:** 5781, MW-7@15-15.5', 11/5/2010 1:09:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	94.2	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 01:45	EJB	GC-5	1	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-12 | **Client Sample Name:** 5781, MW-7@19.5-20', 11/5/2010 1:13:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.4	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 05:41	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-12 | **Client Sample Name:** 5781, MW-7@19.5-20', 11/5/2010 1:13:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	99.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/16/10	11/16/10 10:12	JJH	GC-V8	1	BTK1229

Delta Environmental Consultants, Inc.
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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-12 | **Client Sample Name:** 5781, MW-7@19.5-20', 11/5/2010 1:13:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	112	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 01:59	EJB	GC-5	0.997	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-13 | **Client Sample Name:** 5781, MW-9@5-5.5', 11/5/2010 2:56:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	92.9	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 06:07	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-13 | **Client Sample Name:** 5781, MW-9@5-5.5', 11/5/2010 2:56:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	99.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/16/10	11/16/10 10:42	JJH	GC-V8	1	BTK1229

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-13 | **Client Sample Name:** 5781, MW-9@5-5.5', 11/5/2010 2:56:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	109	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 02:13	EJB	GC-5	0.974	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-14 | **Client Sample Name:** 5781, MW-9@10-10.5', 11/5/2010 3:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.9	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.8	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 06:33	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-14 | **Client Sample Name:** 5781, MW-9@10-10.5', 11/5/2010 3:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	96.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/16/10	11/16/10 11:13	JJH	GC-V8	1	BTK1229

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-14 | **Client Sample Name:** 5781, MW-9@10-10.5', 11/5/2010 3:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	102	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 02:28	EJB	GC-5	0.990	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-15 | **Client Sample Name:** 5781, MW-9@15-15.5', 11/5/2010 3:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.0	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 06:59	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-15 | **Client Sample Name:** 5781, MW-9@15-15.5', 11/5/2010 3:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	98.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/16/10	11/16/10 11:43	JJH	GC-V8	1	BTK1229

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-15 | **Client Sample Name:** 5781, MW-9@15-15.5', 11/5/2010 3:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	112	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 02:42	EJB	GC-5	1	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-16 | **Client Sample Name:** 5781, MW-9@19.5-20', 11/5/2010 3:08:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.0	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.9	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 07:25	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-16 | **Client Sample Name:** 5781, MW-9@19.5-20', 11/5/2010 3:08:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	99.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/16/10	11/16/10 12:14	JJH	GC-V8	1	BTK1229

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1015751-16 | **Client Sample Name:** 5781, MW-9@19.5-20', 11/5/2010 3:08:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	105	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/12/10	11/17/10 02:57	EJB	GC-5	0.997	BTK1265

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015751-17 | **Client Sample Name:** 5781, Composite, 11/5/2010 4:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.9	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.8	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.3	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/10/10	11/11/10 07:51	MCQ	MS-V3	1	BTK0859

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-17 | **Client Sample Name:** 5781, Composite, 11/5/2010 4:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	100	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	11/16/10	11/16/10 12:44	JJH	GC-V8	1	BTK1229

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Petroleum Hydrocarbons

BCL Sample ID: 1015751-17 | **Client Sample Name:** 5781, Composite, 11/5/2010 4:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**14**	**mg/kg**	**2.0**	**Luft/TPHd**	**ND**	**A52**	1
Tetracosane (Surrogate)	127	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	11/16/10	11/17/10 04:52	EJB	GC-5	0.990	BTK1264

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Total Concentrations (TTLC)

BCL Sample ID: 1015751-17 | **Client Sample Name:** 5781, Composite, 11/5/2010 4:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Antimony	ND	mg/kg	5.0	EPA-6010B	ND		1
Arsenic	**3.4**	**mg/kg**	**1.0**	**EPA-6010B**	**ND**		1
Barium	**280**	**mg/kg**	**0.50**	**EPA-6010B**	**ND**		1
Beryllium	ND	mg/kg	0.50	EPA-6010B	ND		1
Cadmium	ND	mg/kg	0.50	EPA-6010B	ND		1
Chromium	**28**	**mg/kg**	**0.50**	**EPA-6010B**	**ND**		1
Cobalt	**11**	**mg/kg**	**2.5**	**EPA-6010B**	**ND**		1
Copper	**36**	**mg/kg**	**1.0**	**EPA-6010B**	**ND**		1
Lead	**14**	**mg/kg**	**2.5**	**EPA-6010B**	**ND**		1
Mercury	ND	mg/kg	0.16	EPA-7471A	ND		2
Molybdenum	ND	mg/kg	2.5	EPA-6010B	ND		1
Nickel	**41**	**mg/kg**	**0.50**	**EPA-6010B**	**ND**		1
Selenium	ND	mg/kg	1.0	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	EPA-6010B	ND		1
Vanadium	**33**	**mg/kg**	**0.50**	**EPA-6010B**	**ND**		1
Zinc	**47**	**mg/kg**	**2.5**	**EPA-6010B**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/11/10	11/12/10 11:17	ARD	PE-OP2	1	BTK0963
2	EPA-7471A	11/17/10	11/18/10 10:43	MEV	CETAC1	1.025	BTK1372

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Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTK0859						
Benzene	BTK0859-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTK0859-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTK0859-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTK0859-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTK0859-BLK1	ND	mg/kg	0.0050		
Toluene	BTK0859-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTK0859-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTK0859-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTK0859-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTK0859-BLK1	ND	mg/kg	0.0050		
Ethanol	BTK0859-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTK0859-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTK0859-BLK1	98.9	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTK0859-BLK1	98.9	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTK0859-BLK1	99.8	%	74 - 121 (LCL - UCL)		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTK0859										
Benzene	BTK0859-BS1	LCS	0.13767	0.12500	mg/kg	110		70 - 130		
Toluene	BTK0859-BS1	LCS	0.13471	0.12500	mg/kg	108		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTK0859-BS1	LCS	0.047448	0.050000	mg/kg	94.9		70 - 121		
Toluene-d8 (Surrogate)	BTK0859-BS1	LCS	0.048494	0.050000	mg/kg	97.0		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTK0859-BS1	LCS	0.048296	0.050000	mg/kg	96.6		74 - 121		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTK0859	Used client sample: N										
Benzene	MS	1015011-21	ND	0.12878	0.12500	mg/kg		103		70 - 130	
	MSD	1015011-21	ND	0.13297	0.12500	mg/kg	3.2	106	20	70 - 130	
Toluene	MS	1015011-21	ND	0.12976	0.12500	mg/kg		104		70 - 130	
	MSD	1015011-21	ND	0.13054	0.12500	mg/kg	0.6	104	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1015011-21	ND	0.049290	0.050000	mg/kg		98.6		70 - 121	
	MSD	1015011-21	ND	0.045715	0.050000	mg/kg	7.5	91.4		70 - 121	
Toluene-d8 (Surrogate)	MS	1015011-21	ND	0.048692	0.050000	mg/kg		97.4		81 - 117	
	MSD	1015011-21	ND	0.048816	0.050000	mg/kg	0.3	97.6		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1015011-21	ND	0.048274	0.050000	mg/kg		96.5		74 - 121	
	MSD	1015011-21	ND	0.048951	0.050000	mg/kg	1.4	97.9		74 - 121	

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTK0729						
Gasoline Range Organics (C4 - C12)	BTK0729-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTK0729-BLK1	99.0	%	70 - 130 (LCL - UCL)		
QC Batch ID: BTK1229						
Gasoline Range Organics (C4 - C12)	BTK1229-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTK1229-BLK1	100	%	70 - 130 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTK0729										
Gasoline Range Organics (C4 - C12)	BTK0729-BS1	LCS	5.3126	5.0000	mg/kg	106		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTK0729-BS1	LCS	0.041000	0.040000	mg/kg	102		70 - 130		
QC Batch ID: BTK1229										
Gasoline Range Organics (C4 - C12)	BTK1229-BS1	LCS	4.8827	5.0000	mg/kg	97.7		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTK1229-BS1	LCS	0.040400	0.040000	mg/kg	101		70 - 130		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTK0729	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1015011-20	ND	5.2905	5.0000	mg/kg		106		70 - 130	
	MSD	1015011-20	ND	5.1815	5.0000	mg/kg	2.1	104	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1015011-20	ND	0.043700	0.040000	mg/kg		109		70 - 130	
	MSD	1015011-20	ND	0.041100	0.040000	mg/kg	6.1	103		70 - 130	
QC Batch ID: BTK1229	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1015011-47	ND	5.3005	5.0000	mg/kg		106		70 - 130	
	MSD	1015011-47	ND	5.1776	5.0000	mg/kg	2.3	104	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1015011-47	ND	0.040600	0.040000	mg/kg		102		70 - 130	
	MSD	1015011-47	ND	0.045300	0.040000	mg/kg	10.9	113		70 - 130	

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Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTK1264						
Diesel Range Organics (C12 - C24)	BTK1264-BLK1	ND	mg/kg	2.0		
Tetracosane (Surrogate)	BTK1264-BLK1	126	%	34 - 136 (LCL - UCL)		

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Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTK1264										
Diesel Range Organics (C12 - C24)	BTK1264-BS1	LCS	14.493	16.611	mg/kg	87.2		50 - 136		
Tetracosane (Surrogate)	BTK1264-BS1	LCS	0.82287	0.66445	mg/kg	124		34 - 136		

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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTK1264	Used client sample: Y - Description: Composite, 11/05/2010 04:30										
Diesel Range Organics (C12 - C24)	MS	1015751-17	14.406	41.029	16.611	mg/kg		160		40 - 137	A01,Q03
	MSD	1015751-17	14.406	30.685	16.556	mg/kg	28.8	98.3	30	40 - 137	A01
Tetracosane (Surrogate)	MS	1015751-17	ND	0.93588	0.66445	mg/kg		141		34 - 136	A01,Q03
	MSD	1015751-17	ND	0.66689	0.66225	mg/kg	33.6	101		34 - 136	A01

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTK1265						
Diesel Range Organics (C12 - C24)	BTK1265-BLK1	ND	mg/kg	2.0		
Tetracosane (Surrogate)	BTK1265-BLK1	115	%	34 - 136 (LCL - UCL)		

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTK1265										
Diesel Range Organics (C12 - C24)	BTK1265-BS1	LCS	14.927	16.611	mg/kg	89.9		50 - 136		
Tetracosane (Surrogate)	BTK1265-BS1	LCS	0.86116	0.66445	mg/kg	130		34 - 136		

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTK1265	Used client sample: Y - Description: MW-6@19.5-20', 11/05/2010 10:53										
Diesel Range Organics (C12 - C24)	MS	1015751-08	ND	12.818	16.611	mg/kg		77.2		40 - 137	
	MSD	1015751-08	ND	11.489	16.556	mg/kg	10.9	69.4	30	40 - 137	
Tetracosane (Surrogate)	MS	1015751-08	ND	0.71684	0.66445	mg/kg		108		34 - 136	
	MSD	1015751-08	ND	0.67705	0.66225	mg/kg	5.7	102		34 - 136	

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Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTK0963						
Antimony	BTK0963-BLK1	ND	mg/kg	5.0		
Arsenic	BTK0963-BLK1	ND	mg/kg	1.0		
Barium	BTK0963-BLK1	ND	mg/kg	0.50		
Beryllium	BTK0963-BLK1	ND	mg/kg	0.50		
Cadmium	BTK0963-BLK1	ND	mg/kg	0.50		
Chromium	BTK0963-BLK1	ND	mg/kg	0.50		
Cobalt	BTK0963-BLK1	ND	mg/kg	2.5		
Copper	BTK0963-BLK1	ND	mg/kg	1.0		
Lead	BTK0963-BLK1	ND	mg/kg	2.5		
Molybdenum	BTK0963-BLK1	ND	mg/kg	2.5		
Nickel	BTK0963-BLK1	ND	mg/kg	0.50		
Selenium	BTK0963-BLK1	ND	mg/kg	1.0		
Silver	BTK0963-BLK1	ND	mg/kg	0.50		
Thallium	BTK0963-BLK1	ND	mg/kg	5.0		
Vanadium	BTK0963-BLK1	ND	mg/kg	0.50		
Zinc	BTK0963-BLK1	ND	mg/kg	2.5		
QC Batch ID: BTK1372						
Mercury	BTK1372-BLK1	ND	mg/kg	0.16		

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Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTK0963										
Antimony	BTK0963-BS1	LCS	90.756	100.00	mg/kg	90.8		75 - 125		
Arsenic	BTK0963-BS1	LCS	9.1360	10.000	mg/kg	91.4		75 - 125		
Barium	BTK0963-BS1	LCS	97.657	100.00	mg/kg	97.7		75 - 125		
Beryllium	BTK0963-BS1	LCS	10.096	10.000	mg/kg	101		75 - 125		
Cadmium	BTK0963-BS1	LCS	9.4767	10.000	mg/kg	94.8		75 - 125		
Chromium	BTK0963-BS1	LCS	96.291	100.00	mg/kg	96.3		75 - 125		
Cobalt	BTK0963-BS1	LCS	98.454	100.00	mg/kg	98.5		75 - 125		
Copper	BTK0963-BS1	LCS	95.156	100.00	mg/kg	95.2		75 - 125		
Lead	BTK0963-BS1	LCS	99.198	100.00	mg/kg	99.2		75 - 125		
Molybdenum	BTK0963-BS1	LCS	93.990	100.00	mg/kg	94.0		75 - 125		
Nickel	BTK0963-BS1	LCS	99.799	100.00	mg/kg	99.8		75 - 125		
Selenium	BTK0963-BS1	LCS	9.2089	10.000	mg/kg	92.1		75 - 125		
Silver	BTK0963-BS1	LCS	8.9406	10.000	mg/kg	89.4		75 - 125		
Thallium	BTK0963-BS1	LCS	96.034	100.00	mg/kg	96.0		75 - 125		
Vanadium	BTK0963-BS1	LCS	91.962	100.00	mg/kg	92.0		75 - 125		
Zinc	BTK0963-BS1	LCS	97.262	100.00	mg/kg	97.3		75 - 125		
QC Batch ID: BTK1372										
Mercury	BTK1372-BS1	LCS	1.5098	1.5000	mg/kg	101		75 - 125		

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Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTK0963	Used client sample: N										
Antimony	DUP	1015365-13	ND	ND		mg/kg			20		
	MS	1015365-13	ND	33.310	100.00	mg/kg		33.3		16 - 119	
	MSD	1015365-13	ND	32.900	100.00	mg/kg	1.2	32.9	20	16 - 119	
Arsenic	DUP	1015365-13	3.9857	4.8979		mg/kg	20.5		20		A02
	MS	1015365-13	3.9857	13.675	10.000	mg/kg		96.9		75 - 125	
	MSD	1015365-13	3.9857	13.659	10.000	mg/kg	0.1	96.7	20	75 - 125	
Barium	DUP	1015365-13	90.156	94.063		mg/kg	4.2		20		
	MS	1015365-13	90.156	178.93	100.00	mg/kg		88.8		75 - 125	
	MSD	1015365-13	90.156	214.22	100.00	mg/kg	18.0	124	20	75 - 125	
Beryllium	DUP	1015365-13	0.37097	ND		mg/kg			20		
	MS	1015365-13	0.37097	9.6332	10.000	mg/kg		92.6		75 - 125	
	MSD	1015365-13	0.37097	9.6884	10.000	mg/kg	0.6	93.2	20	75 - 125	
Cadmium	DUP	1015365-13	0.20049	ND		mg/kg			20		
	MS	1015365-13	0.20049	8.8363	10.000	mg/kg		86.4		75 - 125	
	MSD	1015365-13	0.20049	8.9414	10.000	mg/kg	1.2	87.4	20	75 - 125	
Chromium	DUP	1015365-13	16.501	16.469		mg/kg	0.2		20		
	MS	1015365-13	16.501	104.17	100.00	mg/kg		87.7		75 - 125	
	MSD	1015365-13	16.501	104.31	100.00	mg/kg	0.1	87.8	20	75 - 125	
Cobalt	DUP	1015365-13	5.0090	4.9345		mg/kg	1.5		20		
	MS	1015365-13	5.0090	90.283	100.00	mg/kg		85.3		75 - 125	
	MSD	1015365-13	5.0090	91.011	100.00	mg/kg	0.8	86.0	20	75 - 125	
Copper	DUP	1015365-13	11.101	11.048		mg/kg	0.5		20		
	MS	1015365-13	11.101	100.30	100.00	mg/kg		89.2		75 - 125	
	MSD	1015365-13	11.101	100.71	100.00	mg/kg	0.4	89.6	20	75 - 125	
Lead	DUP	1015365-13	3.9187	4.0186		mg/kg	2.5		20		
	MS	1015365-13	3.9187	89.017	100.00	mg/kg		85.1		75 - 125	
	MSD	1015365-13	3.9187	89.852	100.00	mg/kg	0.9	85.9	20	75 - 125	
Molybdenum	DUP	1015365-13	0.80476	ND		mg/kg			20		
	MS	1015365-13	0.80476	77.336	100.00	mg/kg		76.5		75 - 125	
	MSD	1015365-13	0.80476	77.492	100.00	mg/kg	0.2	76.7	20	75 - 125	
Nickel	DUP	1015365-13	15.094	14.986		mg/kg	0.7		20		
	MS	1015365-13	15.094	101.79	100.00	mg/kg		86.7		75 - 125	
	MSD	1015365-13	15.094	101.91	100.00	mg/kg	0.1	86.8	20	75 - 125	
Selenium	DUP	1015365-13	ND	ND		mg/kg			20		
	MS	1015365-13	ND	9.6961	10.000	mg/kg		97.0		75 - 125	
	MSD	1015365-13	ND	7.5254	10.000	mg/kg	25.2	75.3	20	75 - 125	Q02
Silver	DUP	1015365-13	ND	ND		mg/kg			20		
	MS	1015365-13	ND	8.4514	10.000	mg/kg		84.5		75 - 125	
	MSD	1015365-13	ND	8.5027	10.000	mg/kg	0.6	85.0	20	75 - 125	

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Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTK0963	Used client sample: N										
Thallium	DUP	1015365-13	ND	ND		mg/kg			20		
	MS	1015365-13	ND	83.736	100.00	mg/kg		83.7		75 - 125	
	MSD	1015365-13	ND	84.292	100.00	mg/kg	0.7	84.3	20	75 - 125	
Vanadium	DUP	1015365-13	25.611	26.004		mg/kg	1.5		20		
	MS	1015365-13	25.611	111.54	100.00	mg/kg		85.9		75 - 125	
	MSD	1015365-13	25.611	112.26	100.00	mg/kg	0.6	86.6	20	75 - 125	
Zinc	DUP	1015365-13	48.592	48.502		mg/kg	0.2		20		
	MS	1015365-13	48.592	139.04	100.00	mg/kg		90.4		75 - 125	
	MSD	1015365-13	48.592	137.04	100.00	mg/kg	1.4	88.5	20	75 - 125	
QC Batch ID: BTK1372	Used client sample: N										
Mercury	DUP	1015769-01	0.017097	ND		mg/kg			20		
	MS	1015769-01	0.017097	0.59016	0.80645	mg/kg		71.1		85 - 115	Q03
	MSD	1015769-01	0.017097	0.75226	0.80645	mg/kg	24.1	91.2	20	85 - 115	Q02

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Rancho Cordova, CA 95670

Reported: 11/18/2010 16:16
Project: 5781
Project Number: 4514310860
Project Manager: Jan Wagoner

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
A52	Chromatogram not typical of diesel.
Q02	Matrix spike precision is not within the control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

Attachment G-
Well Development Field Logs

WELL GAUGING DATA

Project # 101210-IW1 Date 12/10/10 Client DELTA

Site 3535 PIERSON ST., OAKLAND, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-6	0915	2					12.09	19.80		
MW-7	0922	2					14.16	19.54		
MW-8	0934	2					13.82	19.70		
MW-9	0930	2					12.03	19.49		

WELLHEAD INSPECTION CHECKLIST

Date 12/10/10 Client DELTA

Site Address 3535 PIERSON ST., OAKLAND, CA

Job Number 101210-IW1 Technician IW

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-6				X				
MW-7	X							
MW-8	X							
MW-9	X							

NOTES:

WELL DEVELOPMENT DATA SHEET

Project #: 101210-IW1	Client: DELTA
Developer: IAN WILLIAMS	Date Developed:
Well I.D. MW-6	Well Diameter: (circle one) (2) 3 4 6
Total Well Depth: Before 19.80 After 19.82	Depth to Water: Before 12.09 After 17.49
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} /231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.3	X	10	=	13.0
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____
Other equipment used 2" SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0936	SWABBED WELL FOR 20 MINUTES.					
1002	19.5	7.06	3124	>1000	1.3	DTW = 14.52 THICK SILT
1004	19.9	6.76	2416	>1000	2.6	" "
1005	WELL	DEWATERED @		3.5 GAL.	3.5	DTW = 17.51
1228	RESUMED PURGE.					DTW = 16.02
1231	18.5	7.30	3111	>1000	3.9	CLOUDY
1232	WELL	DEWATERED @ 4.5		GALLONS	4.5	DTW = 17.49

Did Well Dewater? YES	If yes, note above.	Gallons Actually Evacuated:	4.5

WELL DEVELOPMENT DATA SHEET

Project #: 101210-IWI	Client: DELTA
Developer: IAN WILLIAMS	Date Developed: 12/10/10
Well I.D. MW-7	Well Diameter: (circle one) (2) 3 4 6 __
Total Well Depth: Before 19.54 After 19.56	Depth to Water: Before 14.16 After 17.79
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1 Case Volume	X	Specified Volumes	=	gallons
0.9		10		9.0

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☑ Positive Air Displacement

Type of Installed Pump _____
Other equipment used 2" SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1124	SWABBED WELL FOR 20 MINUTES				~	SEMI-HARD BOTTOM
1154	19.9	6.98	4102	>1000	0.9	SILTY, THICK
1155	WELL DEWATERED @ 1.0 GALLON				1.0	DTW = 17.62
1306	RESUMED PURGE					DTW = 16.80
1308	20.1	7.04	3811	>1000	1.8	
1308	WELL DEWATERED @ 1.9 GALLONS				1.9	DTW = 17.79

Did Well Dewater? YES	If yes, note above.	Gallons Actually Evacuated:	1.9

WELL DEVELOPMENT DATA SHEET

Project #: 101210-IW1	Client: DELTA
Developer: IAN WILLIAMS	Date Developed: 12/10/10
Well I.D. MW-8	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 19.70 After 19.77	Depth to Water: Before 13.82 After 17.73
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

1.0	X	10	=	10.0
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump ___
Other equipment used 2" SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1053	SWABBED WELL		FOR 20	MINUTES		SOFT BOTTOM.
1115	18.5	7.46	1323	>1000	1.0	THICK, SILTY
1117	19.7	7.23	1661	>1000	2.0	" " DTW = 15.79
1119	20.2	7.04	1770	>1000	3.0	" " DTW = 16.98
1121	20.1	6.98	1792	>1000	4.0	" " DTW = 17.19
1121	WELL DEWATERED		@ 4.2	GALLONS	4.2	DTW = 17.62
1245	RESUMED PURGE.					DTW = 14.22
1247	19.1	7.22	1828	>1000	5.0	CLOUDY
1249	20.3	7.19	1686	>1000	6.0	" "
1251	~~WELL~~ 20.1	7.16	1629	>1000	7.0	" "
1251	WELL DEWATERED		@ 7.1 GAL		7.1	DTW = 17.36
1353	RESUMED PURGE.					DTW = 13.38
1403	19.4	7.21	1198	986	8.0	HARD BOTTOM.

Did Well Dewater? YES | If yes, note above. | Gallons Actually Evacuated: 10.0

WELL DEVELOPMENT DATA SHEET

Well I.D. MW-8	PAGE 2 OF 2
Project #: 101210-IWI	Client: DELTA

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1406	19.7	7.18	1256	980	~~8.0~~ 9.0	
1408	19.8	7.16	1239	>1000	10.0	DTW = 17.73

WELL DEVELOPMENT DATA SHEET

Project #: 101210-IW1	Client: DELTA
Developer: IAN WILLIAMS	Date Developed: 12/10/10
Well I.D. MW-9	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 19.49 After 19.52	Depth to Water: Before 12.03 After 18.04
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} /231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

1.2	X	10	=	12.0
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump ___

Other equipment used 2" SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1015	SWABBED WELL	FOR 20	MINUTES			SOFT BOTTOM
1043	19.4	6.97	3256	>1000	1.2	CLOUDY, SILTY
1046	20.1	6.85	2974	>1000	2.4	" " DTW = 16.16
1046	WELL DEWATERED @	3.0 GALLONS			3.0	DTW = 17.19
1212	RESUMED PURGE.				~~3.6~~ .w	DTW = 15.36
1215	19.0	6.98	2544		3.6	CLOUDY
1216	WELL DEWATERED	@ 4.1 GALLONS			4.1	DTW = 18.04
	~~RES~~ w					

Did Well Dewater? YES If yes, note above. Gallons Actually Evacuated: 4.1

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME DELTA @ 3535 PIERSON ST. OAKLAND, CA				PROJECT NUMBER 101210-IW1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
MYRON L ULTRAMETER II	6215733	12/10/10 0635	= 3900 uS →	= 3900 uS	YES	18.6	IW
			= 200 = 10.00 pH → = 4.00	= 6.99 = 10.02 pH = 4.00	YES	18.9	IW
HACH 2100P TURBIDIMETER	6030C015GW4	12/10/10 0640	= 20.0 = 100.0 NTU → = 800.0	= 20.0 = 99.0 NTU = 7960	YES	—	IW

Attachment H-
Historical Soil and Grab Groundwater Analytical Tables

TABLE 1
HISTORICAL SOIL ANALYTICAL DATA

ConocoPhillips Station No. 5781
3535 Pierson Street, Oakland, CA

Sample ID	Date	Sample Depth (feet)	TPH-D (mg/kg)	TPH-G (mg/kg)	TOG (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Oxygenates (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	ETHANOL (mg/kg)	OTHER (mg/kg)
UST and Product Piping Samples															
A1	12/14/1989	12.5	NA	**3.5**	NA	<0.05	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	
B1	12/14/1989	12.5	NA	<1.0	NA	<0.05	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	
A2/B2	12/14/1989	12.5	NA	**5.8**	NA	**0.1**	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	
SW1	12/14/1989	10.5	NA	**15**	NA	<0.05	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	
SW2	12/14/1989	10.5	NA	**46**	NA	**0.65**	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	
P1	12/14/1989	5.5	NA	<1.0	NA	<0.05	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	
P2	12/14/1989	6	NA	<1.0	NA	<0.05	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	
WO1	*12/14/1989*	*6*	***8,300***	***670***	***48,000***	***5.4***	***15***	***2.3***	***17***		*NA*	*NA*	*NA*	*NA*	***(Overexcavated) 1,2-DCB (10), PCE (77), 1,1,1-TCA (15), Cr (8.3), Pb (340), Zn (70)***
Over-Excavation Samples															
WO (16)	2/22/1990	16	**74**	**15**	**910**	**0.06**	<0.10	**0.10**	**2**	NA	NA	NA	NA	NA	**(Post Overexcavation) All HVOCs below detection limit**
SWA	2/22/1990	9	**1,400**	**220**	**17,000**	**2.3**	**2.1**	**7.3**	**23**	NA	NA	NA	NA	NA	**PCE (160)**
SWB	2/22/1990	10	<1	**2**	<50	<0.05	<0.10	<0.10	**0.1**	NA	NA	NA	NA	NA	**PCE (56); 1,1,-TCA (5.8)**
SWC	2/22/1990	10	**460**	**63**	**4,100**	**0.31**	**0.33**	**1.3**	**2.2**	NA	NA	NA	NA	NA	**PCE (56)**
SWD	2/22/1990	10	**360**	**40**	**6,400**	**0.32**	<0.10	**0.49**	**4**	NA	NA	NA	NA	NA	**PCE (40), 1,1,1-TCA (5.8)**
Northwest Waste Oil Tank Pit															
WO1	4/23/2008	9	NA	<0.25	NA	<0.005	<0.005	<0.005	<0.0099	<0.005	See Note	<0.005	<0.005	<1.2	All Oxys below reportring limits
WO2	4/23/2008	7	NA	<0.24	NA	<.0048	<0.0048	<0.0048	<0.0096	<0.0048	See Note	<0.0048	<0.0048	<1.2	All Oxys below reportring limits
WO3	4/23/2008	6.5	NA	<0.24	NA	<.0048	<0.0048	<0.0048	<.0095	<0.0048	See Note	<0.0048	<0.0048	<1.2	All Oxys below reportring limits
WO4	4/23/2008	6.5	NA	<0.24	NA	<.0048	<0.0048	<0.0048	<.0096	<0.0048	See Note	<0.0048	<0.0048	<1.2	All Oxys below reportring limits
Soil Borings															
MW1	4/9/1990	5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW1	4/9/1990	9.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW1	4/9/1990	15	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW1	4/9/1990	20	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW1	4/9/1990	25	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW1	4/9/1990	30	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW1	4/9/1990	35	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW1	4/9/1990	40	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW1	4/9/1990	45	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW1	4/9/1990	50	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
MW2	4/9/1990	5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW2	4/9/1990	9.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW2	4/9/1990	15	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW2	4/9/1990	20	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW2	4/9/1990	25	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW2	4/9/1990	30	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW2	4/9/1990	35	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW2	4/9/1990	39.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW3	4/10/1990	5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW3	4/10/1990	10	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW3	4/10/1990	15	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW3	4/10/1990	20	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW3	4/10/1990	25	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW3	4/10/1990	30	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW3	4/10/1990	35	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW3	4/10/1990	40	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	

TABLE 1
HISTORICAL SOIL ANALYTICAL DATA

ConocoPhillips Station No. 5781
3535 Pierson Street, Oakland, CA

Sample ID	Date	Sample Depth (feet)	TPH-D (mg/kg)	TPH-G (mg/kg)	TOG (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Oxygenates (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	ETHANOL (mg/kg)	OTHER (mg/kg)
EB1	7/5/1990	8.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
EB1	7/5/1990	13.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
EB1	7/5/1990	18.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
EB1	7/5/1990	23.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
EB1	7/5/1990	28.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**1,1,1-TCA (6.2)**
EB2	7/6/1990	9.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
EB2	7/6/1990	12.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
EB2	7/6/1990	16.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
EB2	7/6/1990	22	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
EB2	7/6/1990	26.5	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
EB2	7/6/1990	32.0	<1.0	<1.0	ND	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	
MW-A	12/11/1990	32.5	<1.0	<1.0	**36**	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA	**All HVOCs below detection limit**
SB-1	10/30/2003	35.0	<1.0	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA	ND	<0.005	<0.005	<0.1	
SB-2	10/30/2003	15.0	<1.0	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA	ND	<0.005	<0.005	<0.1	
SB-2	10/30/2003	50.0	<1.0	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA	ND	<0.005	<0.005	<0.1	
SB-3	10/30/2003	15.0	**1,100**	<1.0	NA	<0.005	<0.005	**16**	**50**	NA	ND	<0.005	<0.005	<0.1	
SB-3	10/30/2003	45.0	<1.0	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA	ND	<0.005	<0.005	<0.1	
SB-4	10/30/2003	15.0	<1.0	<1.0	NA	<0.005	<0.005	<0.005	<0.005	NA	ND	<0.005	<0.005	<0.1	
SB-5	10/30/2003	20.0	NA	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SWC-2	3/12/10	10.0	62	0.23	**7700**	<0.005	<0.005	<0.005	0.025	<0.005	See Note	NA	NA	NA	All Oxy's below reporting limit
SWC-2	3/12/10	15.0	2.5	<0.2	<50	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	NA	NA	NA	All Oxy's below reporting limit
SWC-2	3/12/10	20.0	<2.0	<0.2	<50	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	NA	NA	NA	All Oxy's below reporting limit
SWD-2	3/12/10	10.0	270	0.58	**870**	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	NA	NA	NA	All Oxy's below reporting limit
SWD-2	3/12/10	15.0	<2.0	<0.2	<50	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	NA	NA	NA	All Oxy's below reporting limit
SWD-2	3/12/10	20.0	<2.0	<0.2	<50	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	NA	NA	NA	All Oxy's below reporting limit
SB-6	3/12/10	5.0	NA	<0.2	NA	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	<0.005	<0.005	<1	All Oxy's below reporting limit
SB-6	3/12/10	10.0	NA	<0.2	NA	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	<0.005	<0.005	<1	All Oxy's below reporting limit
SB-6	3/12/10	25.0	NA	<0.2	NA	<0.005	<0.005	<0.005	<0.01	**0.02**	See Note	<0.005	<0.005	<1	All Oxy's, with exception of MTBE below reporting limit
SB-6	3/12/10	40.0	NA	<0.2	NA	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	<0.005	<0.005	<1	All Oxy's below reporting limit
SB-7	3/12/10	5.0	<2.0	<0.2	<50	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	NA	NA	NA	All Oxy's below reporting limit
SB-7	3/12/10	10.0	<2.0	<0.2	<50	<0.005	<0.005	<0.005	<0.01	<0.005	See Note	NA	NA	NA	All Oxy's below reporting limit
MW-4@5'	6/4/2010	5.0	<1.0	<2.0	NA	<0.010	<0.010	<0.010	<0.020	<0.010	See Note	<0.010	<0.010	<2.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
MW4@10'	6/4/2010	10.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
MW-4@15'	6/4/2010	15.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	**0.0051**	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
MW-4@20'	6/4/2010	20.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
MW-4@25'	6/4/2010	25.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.

TABLE 1
HISTORICAL SOIL ANALYTICAL DATA

ConocoPhillips Station No. 5781
3535 Pierson Street, Oakland, CA

Sample ID	Date	Sample Depth (feet)	TPH-D (mg/kg)	TPH-G (mg/kg)	TOG (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Oxygenates (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	ETHANOL (mg/kg)	OTHER (mg/kg)
MW-5@5'	6/3/2010	5.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
MW5@12'	6/3/2010	12.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
MW-5@15'	6/3/2010	15.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
MW-5@20'	6/3/2010	20.0	<1.0	<2.0	NA	<0.050	<0.050	<0.050	<0.10	<0.050	See Note	<0.050	<0.050	<10	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
MW-5@24'	6/3/2010	24.0	**73**	**99**	NA	<0.50	<0.50	<0.50	<1.0	**53**	See Note	**0.50**	0<0.50	<250	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
SB-8@6'	6/3/2010	6.0	<1.0	**2.1**	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
SB-8@10'	6/3/2010	10.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
SB-8@15'	6/3/2010	15.0	<1.0	**2.4**	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
SB-8@20'	6/3/2010	20.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.
SB-8@24'	6/3/2010	24.0	<1.0	<2.0	NA	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	See Note	<0.0050	<0.0050	<1.0	TBA; ETBE; TAME; DIPE all below reporting limit. Methanol also below reporting limit.

TPH-G= Total petroleum hydrocarbons as Gasoline Range Organics-C6-C12
TPH-D = Total petroleum hydrocarbons as Diesel Range Organics
TOG= Total oil and grease
BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B
MTBE = Methyl tertiary butyl ether by EPA Method 8260B
TBA = Tertiary butyl alcohol by EPA Method 8260B
1,2,4 = 1,2,4- Trimethylbenzene
DIPE = Di-isopropyl ether by EPA Method 8260B
TAME = Tertiary amyl methyl ether by EPA Method 8260B
1,2-DCA = 1,2-dichloroethane (also known as ethylene dichloride) by EPA Method 8260B
EDB = Ethylene dibromide (also known as 1,2-dibromoethane) by EPA Method 8260B
1,1 DCB = 1,1-dichlorobromide
PCE= tetrachloroethene
1,1,1-TCE= 1,1,1-trichloroethene
HVOCs= Halogenated volatile organic compounds by EPA Method 8010

NA = Not analyzed
ND = Not detected (detection limit not given)