ConocoPhillips
76 Broadway
Sacramento, California 95818

July 6, 2009

Barbara Jakub
Alameda County Health Agency
1131 Harbor Bay parkway, Suite250
Alameda, California 94502-577

Re: ***Site Investigation and Well Installation Report—Planned Development Site***
Former 76 Service Station # 0843 RO # 0450
1629 Webster Street
Alameda, 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.

As discussed on several occasions this site has Alameda Building Department approved development plans and if possible a quick review and approval to proceed with the Ozone Feasibility Test Work Plan would be greatly appreciated.

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,

Terry L. Grayson
Site Manager
Risk Management & Remediation

July 9, 2009

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

DELTA

RE: Site Investigation and Well Installation Report
Former 76 Service Station No. 2349(0843)
1629 Webster Street
Alameda, California

Dear Ms. Jakub:

On behalf of ConocoPhillips Company (ConocoPhillips), Delta Consultants (Delta) is submitting this *Site Investigation and Monitoring Well Installation Report* for the former 76 Station No. 2349(0843) in Alameda, California. Approval for this work was granted in an Alameda County Environmental Health Care Service Agency (ACEH) letter to ConocoPhillips dated April 9, 2009. (Appendix A).

Please contact James Barnard at (916) 503-1279 if you have questions.

Sincerely,

DELTA CONSULTANTS

James B. Barnard
Senior Project Manager
California Registered Professional Geologist No. 7478

Enclosure

cc:

a member of: Inogen Environmental Alliance

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SITE INVESTIGATION AND WELL INSTALLATION REPORT

FORMER 76 SERVICE STATION NO. 2349(0843)
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

July 9, 2009

Prepared for

ConocoPhillips Company
76 Broadway
Sacramento, California

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

Delta Consultants

James B. Barnard
California Registered Professional Geologist No. 7478

INTRODUCTION

On behalf of ConocoPhillips, Delta has prepared this report for the Former 76 Service Station No. 2349(0843) (site) located at 1629 Webster Street, Alameda, California (Figure 1). Approval for this work was granted in an Alameda County Health Care Services Agency (ACEH) letter to ConocoPhillips dated April 9, 2009. A copy of the ACEH letter is provided as Appendix A. A description of the proposed work was presented in Delta's *Work Plan Addendum* dated March 16, 2009. The purpose of this report is to provide a summary of the site assessment activities conducted at the former 76-service station, as depicted in Figure 2.

SITE BACKGROUND AND PREVIOUS ENVIRONMENTAL WORK

June 1998 - Tosco Marketing Company (Tosco, now ConocoPhillips) exhumed and removed two 10,000-gallon gasoline underground storage tanks (USTs), one 550-gallon used oil UST, product lines, and fuel dispensers. Two holes approximately ¾-inch in diameter were observed in the used oil tank during removal. Approximately 338 tons of hydrocarbon impacted soil and backfill were removed from beneath the former USTs, fuel dispensers, and product lines during the UST removal activities.

March 1999 – Four soil borings (B1 through B4) were advanced at the site and converted to monitor wells MW-1 through MW-4 (Figure 2A). Groundwater was encountered from 8 to 15 feet below ground surface (bgs). Static groundwater was observed at depths ranging from 4 and 6 feet bgs subsequent to well installation.

December 1999 – Two off-site soil borings (B5 and B6) were advanced and subsequently converted to monitor wells MW-5 and MW-6. Groundwater was initially present at approximately 10 feet bgs. Static groundwater was observed at a depth of approximately 7 feet bgs subsequent to well installation.

March 2001 - An underground utility survey was conducted to identify and locate underground utilities beneath and in the vicinity of the site that could provide potential preferential pathways for groundwater flow.

May 2001 - Five direct-push soil borings (GP-1 through GP-5) were advanced to evaluate whether underground utilities in the vicinity of the site are providing preferential pathways for groundwater flow and the migration of dissolved phase hydrocarbons. The results of the investigation indicated insufficient evidence that underground utility lines were providing preferential pathways for the off-site migration of dissolved phase hydrocarbons.

December 2001 - Twelve direct-push soil borings (GP-6 through GP-17) were advanced to further assess the extent of residual hydrocarbons in the vadose

zone beneath the site. The results of the investigation indicated that the extent of the residual hydrocarbon impact reported in the previous investigations was limited.

December 2002 - One on-site monitoring well (MW-2) was destroyed during remedial excavation of hydrocarbon-impacted soil. Prior to destruction, monitoring well MW-2 was located near the former eastern dispenser island. During the remedial excavation, monitoring well MW-2 was replaced with on-site backfill monitoring well MW-2A. Approximately 292 tons of hydrocarbon-impacted soil were removed from beneath the former eastern dispenser island.

September 2003 - A *Request and Work Plan for Closure* prepared by ERI was submitted to the Alameda County Health Care Services Agency (ACEH), dated September 10, 2003. The report summarized why no further action is needed for the site; the report also included plans to destroy the existing wells upon regulatory acceptance for no further action. Closure was not granted.

June 2004 – A work plan was submitted for the installation of two additional monitor wells down-gradient of MW-5.

May 2005 – A work plan titled *Work Plan Addendum – Site Assessment Activity* dated May 17, 2005 was prepared by ATC Associates Inc. (ATC) for the installation of two off-site monitor wells.

September 2005 – A work plan was prepared by ATC titled *Work Plan Subsurface Investigation*, for the installation of one on-site monitor well.

September 2005 – Site environmental consulting responsibilities were transferred to Delta.

January 24, 2007 - Delta submitted a work plan to the ACEH recommending the advancement of one soil boring and the installation of three ozone injection wells at the site.

August 14, 2008 - Gregg Drilling, under the supervision of a Delta field geologist advanced one soil boring to a depth of 55 feet bgs. The details of this investigation are described in the *Site Investigation Report* dated October 29, 2008.

May 12 through May 28, 2009 – As proposed in Delta's Work Plan *Site Investigation and Well Installations,* dated March 16, 2009, a total of seven groundwater monitoring wells (MW-1AR, MW-1BR, MW-7, MW-8, MW-9, MW-10, MW-11) and one injection point well (TSP-1) were installed at the site. One onsite monitoring well (MW-2A) was also abandoned.

SENSITIVE RECEPTORS

June/July 2002 - A groundwater receptor survey was conducted. Three irrigation wells were located within a one-half mile radius of the site. The wells are located approximately 1,980 feet west and 2,245 feet southwest of the site, cross-gradient and up-gradient of the site.

November 2006 – A survey entailing a visit to the DWR office in Sacramento was conducted to examine well log records and to identify domestic wells within the survey area. The DWR survey provided 15 potential receptors within one mile of the site; one domestic well located 0.5 mile southwest of the site; one domestic/irrigation well located 0.7 mile southeast of the site; 11 irrigation wells- three, located 0.1 mile northwest, west, and southeast of the site; and two industrial wells located 0.3 miles southwest and 0.9 mile northeast of the site.

SITE GEOLOGY

The subject site is located on an island in the eastern portion of the San Francisco Bay and is underlain by interbedded Holocene age marine beach and near shore deposits. These deposits are composed of unconsolidated sands and semi-consolidated deposits of well-graded to poorly-graded sand, silty sand/sandy silt, silt, and clayey sand.

Previous site investigations indicate that the subsurface lithology onsite is consistent with that described above (sand, silty sand/sandy silt, silt) to the maximum depth explored.

SITE HYDROGEOLOGY

Field boring data indicate that first water encountered was at depths between 9.5 feet below ground surface (bgs) (MW-7) to 19 feet bgs (MW-10). First water could not be determined in borings MW-1AR, MW-1BR, MW-10, and TSP-1. This was due to a quickly rising column of sand up the annular space of the auger at depths of 17.5 feet bgs to 20.5 feet bgs. This type of sand rising under pressure is called heaving sands. Heaving sands are indicative of a pressurized, confined aquifer. The confinement layer appears to be very silty sand or clayey sand with compacted pore spaces that essentially traps this pressurized aquifer within a defined zone. These heaving sands have not been documented in any previous boring investigation at this site.

Data from the quarterly groundwater monitoring conducted at the site indicate that static depth to groundwater varies from approximately 4.5 to 9.5 feet bgs. The groundwater flow direction is generally to the north-northeast with infrequent variations to the northwest.

Quarterly groundwater monitoring and sampling was initiated in March 1999. During the most recent (second quarter) groundwater monitoring and

sampling event conducted by TRC May 28, 2009, depth to groundwater ranged from 5.12 feet (MW-5) to 8.29 (MW-7) below top of casing (TOC). The groundwater flow direction was interpreted to be to the east, at a gradient of 0.02 foot per foot (ft/ft), as compared to the previous quarterly sampling event when the groundwater flow direction was interpreted to be to the north with a gradient of 0.004 ft/ft (February 24, 2009). Historic groundwater flow directions are shown on a rose diagram presented as Figure 3.

At the time of this *Site Investigation and Well Installation* report, TRC's second quarter monitoring report has not been finalized. Draft concentration maps from the (June 30, 2009 draft) depicting current TPH-G, benzene, and MTBE levels are shown as figures 4, 4A and 4B, respectively. A current (May 28, 2009) groundwater elevation map- also draft form; as done by TRC- is included as Figure 5.

MAY 2009 SITE INVESTIGATION AND WELL DESTRUCTION

On March 16, 2009 Delta submitted a Work Plan- *Site Investigation and Well Installations*- to the ACEH. This work plan proposed the installation of seven monitoring wells (MW1-AR, MW1-BR, MW-7, MW-8, MW-9, MW-10, MW-11) and one test injection well (TSP-1). Additional proposed work included both the advancement of one CPT boring (to confirm previous results reported in onsite boring CPT-01) and the abandonment of two monitoring wells, MW-1 and MW-2A.

Approval for the described work was granted in an ACEH letter to COP, dated April 9, 2009 (Appendix A). Subsequent communications with the Agency determined that MW-1 would not yet be abandoned (as the well may be of benefit during future planned ozone injection work); and that additionally, the one CPT boring would not be advanced in the initial stage of the site investigation. Field activities conducted during the May 2009 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 groundwater monitoring wells were obtained from the Alameda County Public Works Agency, and are included in Appendix B. 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 boring locations were further cleared by air vacuum to avoid damage to possible underground utilities.

Scope of Assessment Field Work

On May 12th and May 13th, Resonant Sonic Drilling (RSI), under supervision of Delta field geologists, cleared eight boring locations to a depth of five feet bgs using air-knife technologies. All cleared boreholes were temporarily backfilled with clean sand to ensure no open boreholes were left overnight.

During the May 13th airknife clearance at MW-1AR, a 4-inch diameter metal pipe was encountered at approximately 4-feet bgs. Soil above the pipe had been loose and easily removed with the airknife. The pipe ran parallel to the east wall of neighboring SK Auto Shop, and comparison with the sites' general arrangement diagram identified the line as part of a sanitary sewer. Following discussion with COP and Delta, the initial MW-1AR was backfilled and capped. MW-1AR was relocated approximately 5-feet south of the initial location.

Also on the 13th (during air knifing activities of MW-7) railroad ties and brick materials were encountered. The materials were likely fill used to rebuild the northern corner area of the site, along Pacific and Webster Streets, the lowest elevation point onsite. In that described corner (near MW-7 and also near MW-8), surface asphalt has sunk approximately ¼" to ½" away from the planter box curb, signifying noticeable subsidence.

Locations of borings converted to monitoring wells MW-1AR, MW-1BR, MW-7, MW-8, MW-9, MW-10, and MW-11), and the additional injection well location (TSP-1), are depicted in Figure 2.

MONITORING WELL INSTALLATION

From May 13th to 15th and on May 20th, RSI (under the supervision of Delta) converted seven of the eight cleared boreholes into monitoring wells MW-1AR, MW-1BR, MW-7, MW-8, MW-9, MW-10, and MW-11. The eighth borehole was converted into test injection well TSP-1. All boreholes were advanced using hollow stem augers (with the exception of MW-10 which was advanced by direct push methodologies) to depths between 25 and 35 feet bgs.

Delta advanced two monitoring wells using a truck mounted drill-rig equipped with hollow stem augers adjacent to monitoring well MW-1 in the southwest portion of the property (Figure 2). The borings, MW-1AR and MW-1BR, were advanced to depths of 30.5 feet bgs and 35 feet bgs, respectfully.

In addition, two new monitoring wells were installed in the northeast corner of the property (Figure 2). The borings, MW-7 and MW-8, were each advanced to depths of 30 feet bgs. A series of three (3) monitoring wells were installed around ozone sparge well TSP-1, approximately 15 feet to the northwest, north, and east of the test sparge point to monitor attenuation of the contaminants and radius of influence (ROI). The borings, MW-9, MW-10,

and MW-11 were advanced to depths of 25' bgs, 30' bgs, and 28' bgs, respectively. Details of the ozone sparge well, TSP-1 are discussed in the following section of this report.

Construction diagrams for replacement wells MW-1AR and MW-1BR, and new monitoring wells MW-7 and MW-8, are provided as figure(s) 6, 6A, 6B and 6C, respectively. Construction details for ozone injection well TSP-1 are provided as figure 7. Diagrams for new monitoring wells MW-9, MW-10 and MW-11, are provided as respective figure(s) 8, 8A, and 8B.

Soils encountered in the borings were logged using the Unified Soil Classification System (USCS) for lithologic interpretation and were field screened for the presence of volatile organic compounds by headspace analysis using a pre-calibrated PID. Soil samples were collected for lithologic interpretation continuously, and field screened at five foot intervals, beginning at a depth of 5.0 feet bgs.

Soil samples were collected using a split spoon sampler, equipped with 6-inch brass sampling liners in all wells, with the exception of MW-10. In MW-10, continuous soil samples were collected using a two-inch diameter direct push rod equipped with 4-foot, 1.5-inch diameter acetate sampling liners. Samples containing the highest PID were selected for analysis, properly labeled, capped with Teflon ® sheets and plastic end caps, then immediately placed on ice pending transport to BC Laboratories, Inc., in Bakersfield, California for analysis. A chain-of-custody accompanied the samples during transportation to the laboratory.

Borings were converted to groundwater monitoring wells by installing a 2-inch diameter schedule 40 poly vinyl chloride (PVC) well casing with a 5-foot screened interval (set five feet from the total depth of each well). Perforation size in the screen interval is 0.020 inches; with a sand pack of RMC Lonestar Sand #3 in the annual space, extending approximately one foot above the top of the screen interval. Due to heaving sands encountered during drilling activities of MW 1AR, MW-1BR, a two-foot bentonite seal was used above the filter sand pack, and kept standard on all wells, regardless of whether heaving sands were encountered or not. (The other two borings which noted heaving sands during drilling activities were MW-10 and TSP-1).

The remainder of the annular space was filled with neat cement and the wells were fitted with a locking cap and encased in a traffic-rated Christy box placed at existing ground level.

Boring logs from the advancement of the above monitoring wells are included as Appendix C. Cross-section figures A-A', B-B' and C-C' are provided as Figures 9, 9A and 9B, respectively.

INJECTION/SPARGE WELL INSTALLATION

The test injection well, TSP-1, was advanced on-site May 14, 2009. The location of the test injection well is in the source area; perpendicular to the axis of the TPPH and MTBE plumes present beneath the site; or, down-gradient of MW-1.

The injection well was constructed as detailed in the Workplan to a depth of 30 feet bgs; with a three-foot ceramic ozone diffuser attached to ¾-inch poly-vinyl chloride (PVC) casing to surface grade. Sand filter packing extends from total depth to two foot above the top of the ceramic diffuser, sealed with 5 feet of bentonite saturated in place, and then capped to the ground surface with cement grout and completed with traffic rated vault boxes. A diagram detailing the injection well construction is included as Figure 7.

Soil samples for lithologic logging and chemical analysis were collected at 5-foot intervals. All samples were field screened with a PID for the presence of volatile organic compounds. The soil sample emitting the highest PID (20-foot sample, with a PID of 3.2 ppm) was submitted to the laboratory for analysis of: TPPH, BTEX, MTBE, DIPE, ETBE, TAME, TBA, 1,2-DCA, Ethanol, and EDB - (8 oxygenates) by EPA method 8260B. Additional analyses will include sulfate (EPA Method 300.0), ferrous iron (EPA Method 3500FE+D), total and dissolved manganese (EPA Method 200.8), and total carbon (EPA Method 415.1).

Boring logs from the advancement of TSP-1 are included as Appendix C.

MONITORING WELL ABANDONMENT

On May 13, 2009, Delta supervised the destruction of on-site groundwater monitoring wells (MW-2) at the subject site. Prior to field activities, a well destruction permit was obtained from the ACEH. A copy of the well destruction permit is included in Attachment B.

On May 13th, RSI (under supervision of both Delta, and Ms. Vicky Hamlin of the Alameda Public Works Agency) abandoned on-site monitoring well MW-2A. Following jackhammer removal of the well box, assessment of the well construction indicated that the well had been completed without grout material in the annular seal, i.e. neat cement was absent around the schedule-40 PVC casing, to the total depth measured (12-feet bgs). Due to this (original) construction of well MW-2, the well casing had fallen at an angle to the west. At the original time of installation (December 2002) total depth of MW-2 was also reported at 12-feet bgs; therefore no sediment or blockage was present. Over-drilling the length of the well casing was not possible due to the inability to maintain the auger directly/fully over the well casing.

As requested by ACEH, the well casing was cut down approximately 1.5-feet bgs. Approval was then granted to abandon the well by filling it with neat cement to grade, dyed to match the surrounding asphalt.

HANDLING OF GENERATED WASTE

Drill cuttings and wastewater generated during boring advancement and sampling activities were placed into properly labeled 55-gallon Department of Transportation (DOT) approved steel drums and stored on-site. Twenty eight drums were generated. ConocoPhillips-approved facility, Belshire Environmental Services, Inc., accepted waste materials June 10, 2009. Drums were removed from the site on June 24, 2009.

MONITORING WELL DEVELOPMENT AND SAMPLING

Monitoring wells MW-7, MW-8, MW-11, MW-1AR, and MW-1BR were developed on May 20th-21st, 2009. Wells MW-10 and MW-9 were developed on May 26th and May 28th 2009, respectively. All wells, except MW-9, were developed at least 72 hours after the completed well installations. Ten well volumes (between 35-40 gallons) were purged from each well. Measured depth-to-bottoms of the wells ranged between 27.5 and 34.5 feet. Depth to water in the wells ranged from 4.6 feet to 9.1 feet bgs. Well development field logs are included in Appendix D.

Groundwater was sampled from wells MW-1AR, MW-1BR, MW-7, MW-8, MW-9, MW-10, MW-11 and TSP-1 on May 28, 2009 by TRC Companies Inc. (TRC), as a second quarter 2009 monitoring and sampling event. Note that the groundwater samples analyzed out of MW-9 were collected less than 42-hours after development, and were therefore treated as a "grab" sample. Analytical results from this sampling event are presented in Table 2.

SURVEY OF MONITORING WELLS

A survey of the groundwater monitoring network, including the 7-newly installed monitoring wells and one newly installed injection point, was performed on May 28, 2009 by Morrow Surveying. Department of Water Resources (DWR) well completion logs were completed and forwarded to RSI for approval and were submitted to the DWR by RSI on June 18, 2009. Location and elevation survey data for the six previously installed monitoring wells (MW-1 through MW-6) was successfully submitted to the State of California Water Resources Control Board GeoTracker ESI database on June 9, 2009.

SUMMARY OF FINDINGS

Soil borings were advanced to depths ranging from 25 feet to 35 feet bgs. Groundwater was encountered in the borings at various depths ranging from 9.5 to 19 feet bgs. Lithology encountered in the subsurface was

predominately silty sands to the maximum depth explored, 35- feet bgs. During drilling, heaving sands were encountered in borings MW-1AR; MW-1BR; MW-10 and TSP-1.

Soil Sampling

Selected soil samples (one soil sample from each boring, exhibiting the highest PID) were submitted to the laboratory for analysis of total purgeable petroleum hydrocarbons (TPPH), benzene, toluene, ethyl-benzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), 1,2- dichloroethane (1,2-DCA), ethanol, and ethylene di-bromide (EDB)- (8 oxygenates) by EPA Method 8260B. Additional analyses included sulfate (EPA Method 300.0), ferrous iron (EPA Method 3500FE+D), total manganese (EPA Method 200.8), and total carbon (EPA Method 415.1). Laboratory results are included as Appendix E.

Soil sampling results indicated concentrations of the constituents of concern were as follows:

- TPPH was reported above the laboratory's indicated reporting limits in six of the eight soil samples at concentrations ranging from 0.24 mg/kg (TSP-1 at 20 feet bgs) to 4100 mg/kg (MW-7 at 10 feet bgs).
- MTBE was reported above the laboratory's indicated reporting limits in four of the eight soil samples at concentrations ranging from 0.0081 mg/kg (MW-10 at 10 feet bgs) to 0.25 mg/kg (MW-1AR at 20 feet bgs).
- ETHYL-BENZENE was reported above the laboratory's indicated reporting limits in three of the eight soil samples at concentrations ranging from 0.059 mg/kg (MW-10 at 10 feet bgs) to 38 mg/kg (MW-7 at 10 feet bgs).
- TOTAL XYLENES were reported above the laboratory's indicated reporting limits in two of the eight soil samples at a concentration of 9.5 mg/kg (MW-9 at 10 feet bgs) and 770 mg/kg (MW-7 at 10 feet bgs).
- SULFATES were reported above the laboratory's indicated reporting limits in six of the eight soil samples at concentrations ranging from 10 mg/kg (MW-8 at 15 feet bgs) to 51 mg/kg (MW-11 at 10 feet bgs).
- MANGANESE was reported above the laboratory's indicated reporting limits in all eight of eight soil samples at concentrations ranging from 110 mg/kg (MW-7 at 10 feet bgs) to 190 mg/kg (MW-9 at 10 feet bgs).

Benzene, toluene, TBA, ETBE, TAME, DIPE, 1,2-DCA, and Ethanol were below the laboratory's indicated reporting limits in all the collected samples from

borings MW-1AR, MW-1BR, MW-7, MW-8, MW-9, MW-10, MW-11 and TSP-1. Concentrations for soil samples collected during drilling are presented on Table 1.

Groundwater Sampling

Grab groundwater samples were collected by Delta from three of the newly installed monitoring wells and sparge well boring: MW-1AR, MW-8, MW-9 and TSP-1, on May 14, 2009. Non-disposable sampling equipment was decontaminated between samples in a non-phosphate detergent and was triple rinsed with potable water.

Groundwater samples obtained from the three monitoring wells and the sparge well boring will be decanted into properly labeled sample bottles and placed on ice as noted above pending transportation to a California-certified laboratory. A chain-of-custody will accompany the samples during transportation to the laboratory. The collected groundwater samples will be analyzed for TPPH, BTEX, MTBE, DIPE, ETBE, TAME, TBA, 1,2-DCA, ethanol, and EDB by EPA Method 8260B. Additional analyses will include sulfate (EPA Method 300.0), ferrous iron (EPA Method 3500FE+D), total and dissolved manganese (EPA Method 200.8), and total carbon (EPA Method 415.1), DO, and ORP. Lab reports included Appendix E.

Groundwater samples were analyzed for Groundwater sampling results indicate the concentrations of the constituents of concern were as follows:

- TPPH was reported above the laboratory's indicated reporting limits in the groundwater sample collected from MW-8 at a concentration of 650 µg/L and in MW-9 at a concentration of 1900 µg/L.
- BENZENE was reported above the laboratory's indicated reporting limits in one groundwater sample, MW-8, at a concentration of 1.4 µg/L.
- ETHYL-BENZENE was reported above the laboratory's indicated reporting limits in two wells; MW-8 at a concentration of 11 µg/L, and MW-9 at a concentration of 74 µg/L.
- TOTAL XYLENES were reported above the laboratory's indicated reporting limits in two wells; MW-8 at a concentration of 6.2 µg/L, and MW-9 at a concentration of 250 µg/L.
- MTBE was reported above the laboratory's indicated reporting limits in all four groundwater samples at concentrations ranging from 2.4 µg/L (MW-1AR) to 40 µg/L (MW-9).

Sulfates, Iron, Non-Volatile Organic Carbon, Dissolved Oxygen, Manganese, and Total Recoverable Manganese were also reported above the laboratory's indicated reporting limits. Each constituent was reported in all four

respective groundwater samples, with the exception of Iron which was below the laboratory limits in monitoring well MW-8. Sulfates ranged from 23 mg/L (MW-8) to 46 mg/L (TSP-1); Iron ranged from 170 µg/L (TSP-1) to 330 µg/L (MW-1AR); Non-Volatile Organic Carbon ranged from 2.1 mg/L (MW-1AR) to 4.2 (TSP-1); Dissolved Oxygen ranged from 3.5 mg O/L (MW-9) to 7.0 mg O/L (MW-8); Manganese ranged from 24 µg/L (TSP-1) to 900 µg/L (MW-8); and Total Recoverable Manganese ranged from 67 µg/L (MW-1AR) to 1200 µg/L (MW-8).

Toluene, TBA, ETBE, TAME, DIPE, 1,2-DCA, and Ethanol were below the laboratory's indicated reporting limits in samples collected from monitoring wells MW-1AR, MW-8, MW-9 and TSP-1. Concentrations for groundwater samples collected are presented on Table 2. Dissolved phase groundwater concentrations maps for TPHg, benzene, and MTBE are presented as Figures 4, 4A, and 4B, respectively.

Additional groundwater sampling of the seven newly installed monitoring wells was conducted by TRC as a second quarter 2009 monitoring and sampling event on May 28, 2009. During the sampling event, groundwater collected from monitoring well MW-9 was treated as a grab sample; as the well had been developed within 42 hours. A copy of TRC's second quarter, 2009 monitoring and sampling report is pending upload to the Geotracker database.

CONCLUSIONS

The heaving sands found in monitoring wells MW-1AR, MW-1BR, MW10, and the ozone sparge well TSP-1 indicate a pressurized, confined aquifer. This was indicated by the rapid nine-foot rise of wet sand up the stem of the auger as witnessed by the drill crew and field personnel.

The results of the sampling performed by TRC indicates that the placement of the new monitoring wells and the ozone sparge well are in or very near to the zones with the highest concentrations of TPHg and MTBE. Further analysis of the TRC sampling results indicates that TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.

Groundwater parameters obtained from sampling the new wells indicate that ozone should perform well in the removal of the contaminants based on the oxygen content of the groundwater.

Based on the above information and results, Delta recommends proceeding with the Ozone Feasibility Test Work Plan dated June 1, 2009, and approved June 18, 2009.

LIMITATONS

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

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TABLES

Table 1 – Soil Analytical Data (May 2009)
Table 2 – Groundwater Analytical Data (May 2009)

FIGURES

Figure 1 – Site Location Map
Figure 2 – Site Plan with Current Sampling Locations
Figure 2A - Historical Sampling Locations
Figure 3 – Historical Groundwater Flow Direction- Rose diagram
Figure 4 – Dissolved Phase TPHg Groundwater Concentration Map
Figure 4A - Dissolved Phase Benzene Groundwater Concentration Map
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Figure 5 – Groundwater Elevation Contour Map (May 28. 2009)
Figure 6 – Monitoring Well Construction Diagram MW-1AR
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Figure 9 - Cross Section A-A'
Figure 9A - Cross Section B-B'
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APPENDICES

Appendix A ACHCSA Letter Dated April 9, 2009
Appendix B Alameda County Public Works Agency Drilling Permit, Dated May 7, 2009
Appendix C Boring Logs
Appendix D Well Development Field Logs
Appendix E Laboratory Analytical Report (BC Laboratories, Inc.)
Appendix F TRC Quarterly Monitoring Report, dated July 7, 2009

Table 1-
Soil Analytical Data (May 2009)

TABLE 1

SOIL ANALYTICAL RESULTS
Former 76- Station No. 2349(0843)
1629 Webster Street, Alameda, CA

Sample ID	Date	Sample Depth	TPPH	BENZENE	TOLUENE	Ethyl-Benzene	Total Xylenes	MTBE	TBA	ETBE	TAME	DIPE	1,2-DCA	ETHANOL	SULFATE	MANGANESE
		(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
MW-1AR	5/14/2009	20	**0.26**	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	**0.25**	ND<0.050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<1.0	**15**	**160**
MW-1BR	5/15/2009	20	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	**0.15**	ND<0.050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<1.0	**15**	**150**
MW-7	5/14/2009	10.0	**4100**	ND<0.50	ND<0.50	**38**	**770**	ND<0.50	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	**16**	**110**
MW-8	5/14/2009	15.0	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<1.0	**10**	**120**
MW-9	5/13/2009	10.0	**46**	ND<0.12	ND<0.12	**2.0**	**9.5**	ND<0.12	ND<1.2	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<25	ND<10	**190**
MW-10	5/20/2009	10.0	**0.40**	ND<0.0050	ND<0.0050	**0.059**	ND<0.010	**0.0081**	ND<0.050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<1.0	ND<10	**180**
MW-11	5/15/2009	10.0	**0.40**	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<1.0	**51**	**190**
TSP-1	5/14/2009	20.0	**0.24**	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	**0.23**	ND<0.050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<1.0	**18**	**140**

TPPH= Total Purgeable Petroleum Hydrocarbons
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

Ethanol analyzed by EPA Method 8260B
mg/kg = milligrams per killogram
ND = not detected above the laboratory detection limit
-- = not applicable / not analyzed
Bold = detected compound concentration

EPA = Environmental Protection Agency

Sample ID: TP-1 north side of tank pit
TP-4 and TP-5 west side of tank pit

Table 2-
Groundwater Analytical Data (May 2009)

TABLE 2

GRAB GROUNDWATER ANALYTICAL RESULTS
Former 76- Station No. 2349(0843)
1629 Webster Street, Alameda, California

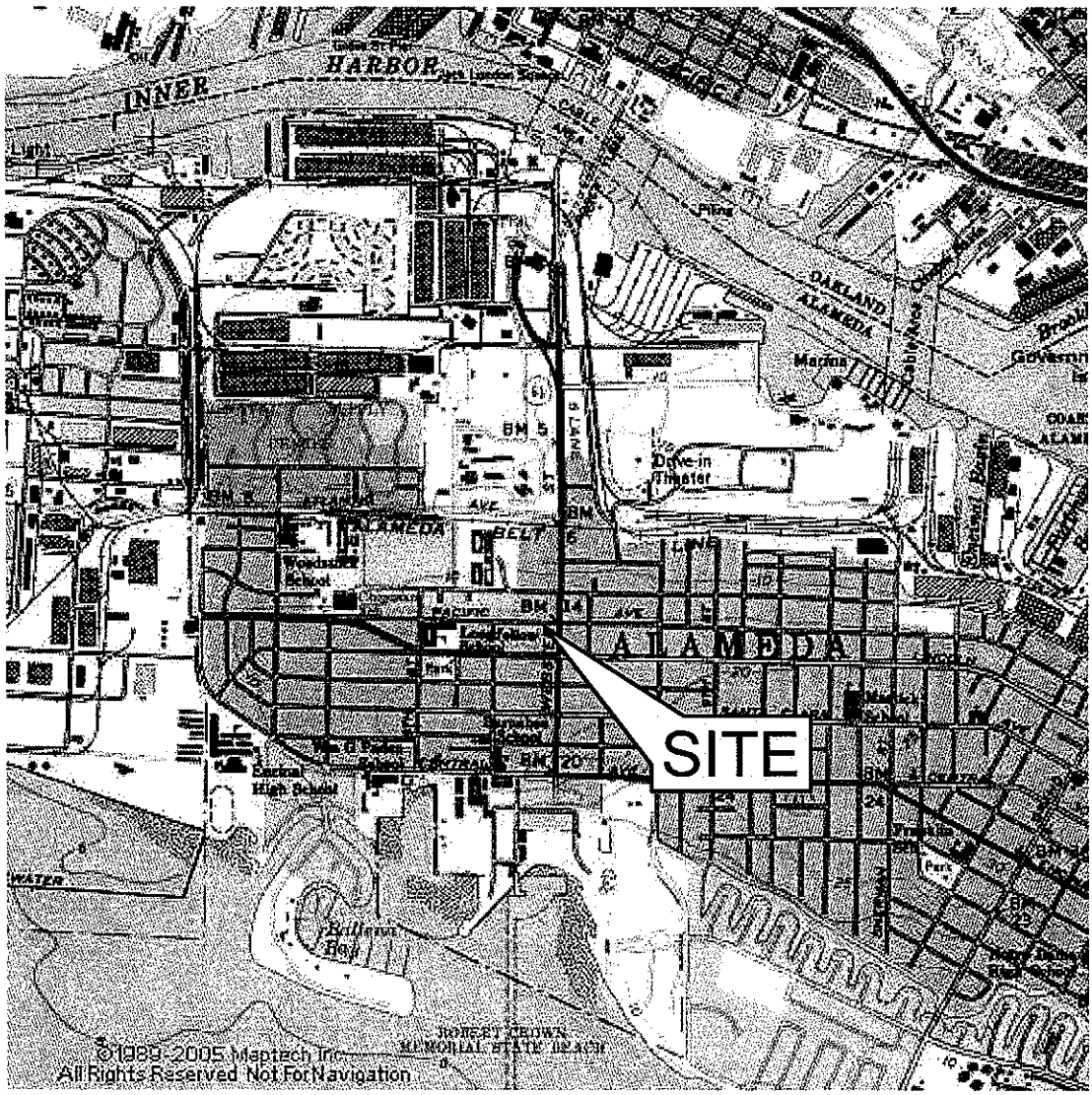
Sample ID	Date	TPPH (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	TAME (µg/L)	DIPE (µg/L)	1,2-DCA (µg/L)	ETHANOL (µg/L)	SULFATE (mg/L)	IRON (µg/L)	NON-VOLATILE ORGANIC CARBON (mg/L)	DISSOLVED OXYGEN (mg O/L)	MANGANESE (µg/L)	TOT. RECOVERABLE MANGANESE (µg/L)
MW-1AR	5/14/2009	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**2.4**	ND<10	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<250	**33**	**330**	**2.1**	**9.8**	**59**	**67**
MW-8	5/14/2009	**650**	**1.4**	ND<0.50	**11**	**6.2**	**4.4**	ND<10	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<250	**23**	ND<100	**3.6**	**7.0**	**900**	**1200**
MW-9	5/14/2009	**1900**	ND<0.50	ND<0.50	**74**	**250**	**40**	ND<10	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<250	**38**	**230**	**2.2**	**3.5**	**180**	**240**
TSP-1	5/14/2009	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	**7.1**	ND<10	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<250	**46**	**170**	**4.2**	**7.6**	**24**	**330**

TPPH= Total purgeable petroleum hydrocarbons
BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B
MTBE = Methyl tertiary butyl ether by EPA Method 8.
TBA = Tertiary butyl alcohol by EPA Method 8260B
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

Ethanol analyzed by EPA Method 8260B
mg/kg = milligrams per kilogram
ND = not detected above the laboratory detection limit
-- = not applicable / not analyzed
Bold = detected compound concentration

EPA = Environmental Protection Agency

Figure 1-
Site Location Map



0 1000 FT 2000 FT

SCALE: 1 : 24,000

North

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND WEST QUADRANGLE, 1996

FIGURE 1

SITE LOCATION MAP

76 STATION NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

PROJECT NO. C100-843	DRAWN BY JH 03/18/09
FILE NO. Site Locator 0843	PREPARED BY CM
REVISION NO. 2	REVIEWED BY JM

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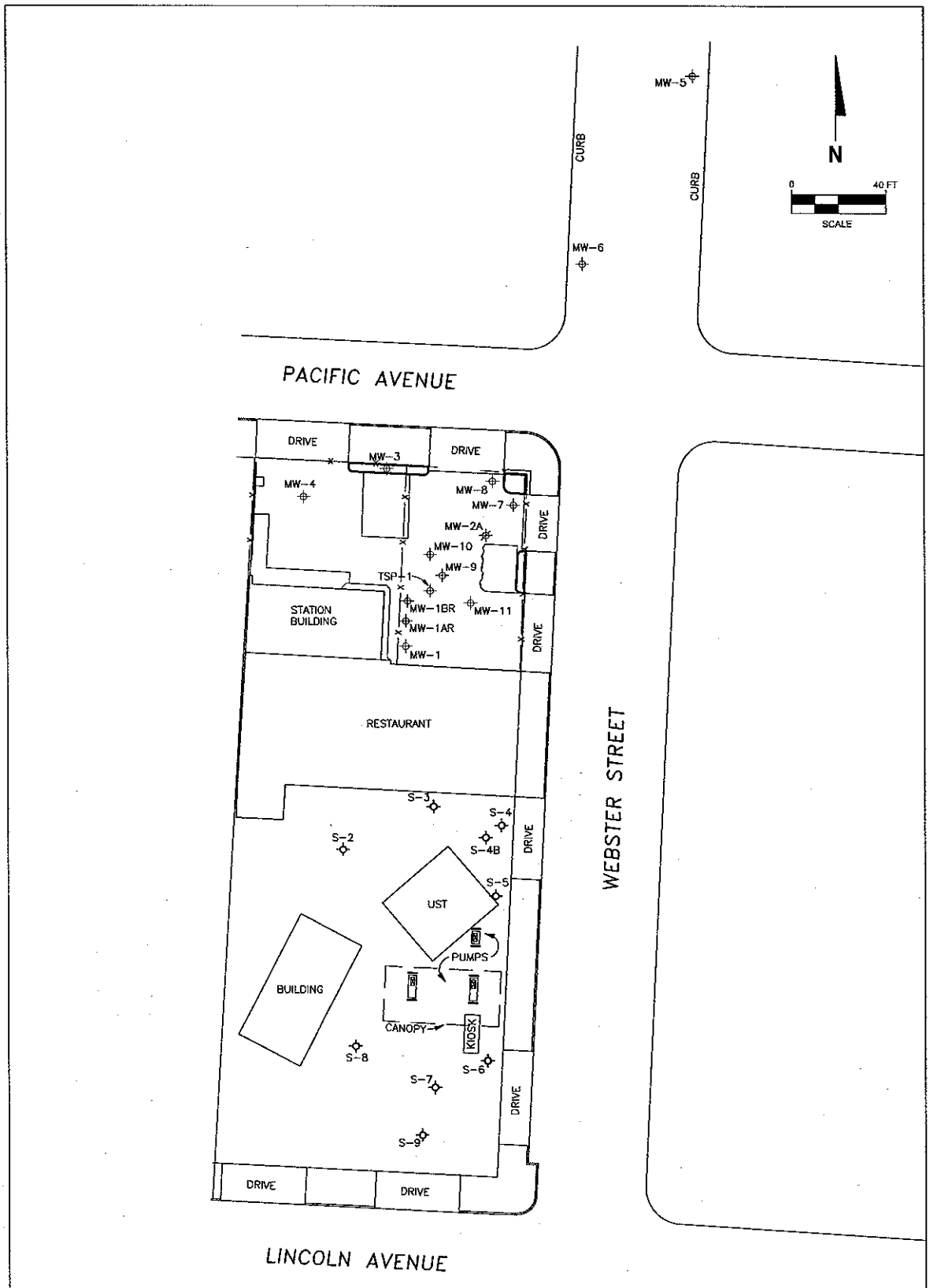
Figure 2-
Site Plan with Current Sampling Locations



PLAN ADAPTED FROM A SURVEY BY MORROW SURVEYING DATED FEBRUARY 2009.

LEGEND:

MW-1 ACTIVE 76 MONITORING WELL

MW-2A ABANDONED 76 MONITORING WELL

S-1 SHELL MONITORING WELL

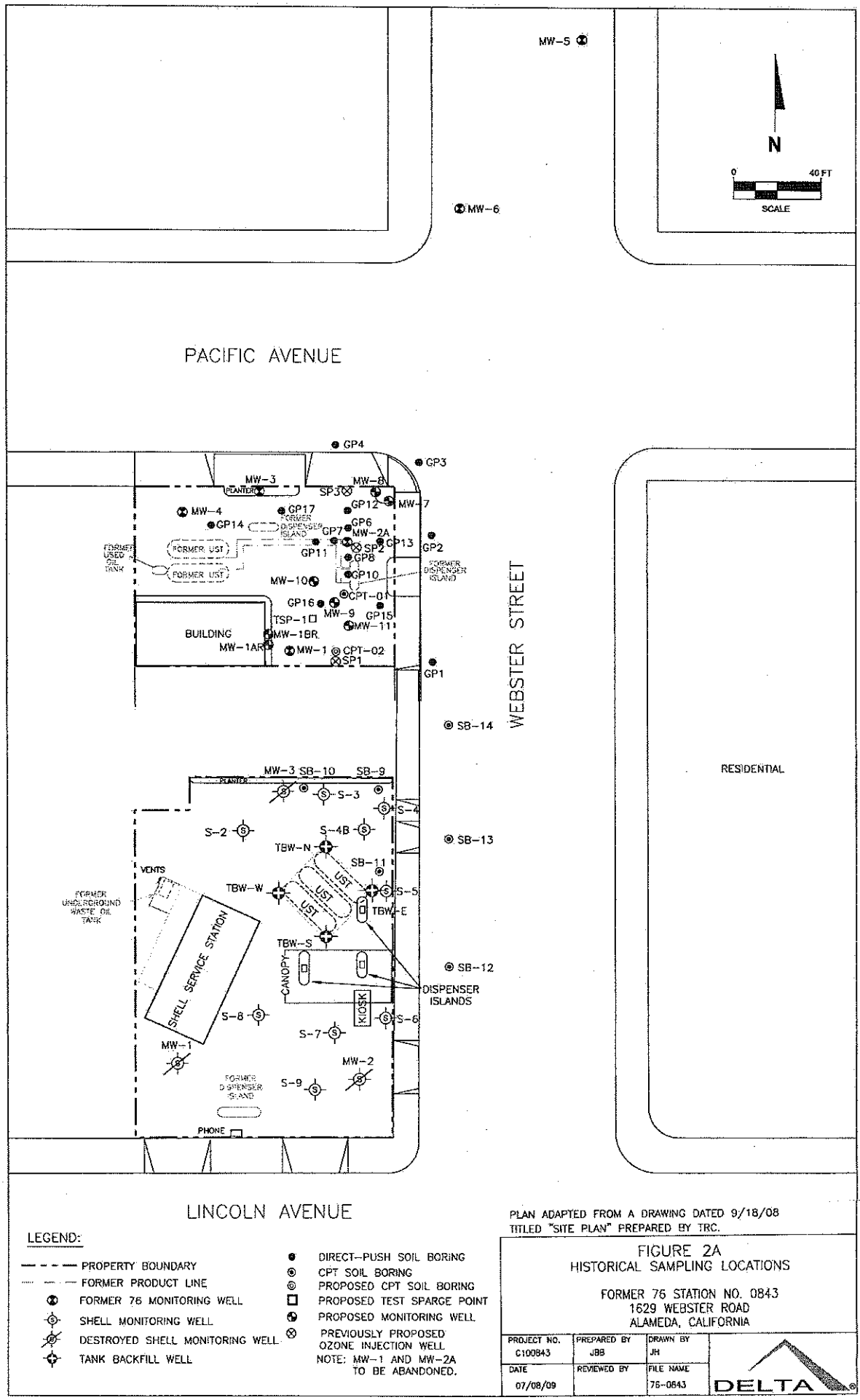
FIGURE 2
SITE PLAN

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C100843	JBB	JH
DATE	REVIEWED BY	FILE NAME
07/06/09		76-0843-S

DELTA

Figure 2A-
Site Plan with Historical Sampling Locations



LEGEND:

- PROPERTY BOUNDARY
- FORMER PRODUCT LINE
- FORMER 76 MONITORING WELL
- SHELL MONITORING WELL
- DESTROYED SHELL MONITORING WELL
- TANK BACKFILL WELL
- DIRECT-PUSH SOIL BORING
- CPT SOIL BORING
- PROPOSED CPT SOIL BORING
- PROPOSED TEST SPARGE POINT
- PROPOSED MONITORING WELL
- PREVIOUSLY PROPOSED OZONE INJECTION WELL

NOTE: MW-1 AND MW-2A TO BE ABANDONED.

PLAN ADAPTED FROM A DRAWING DATED 9/18/08 TITLED "SITE PLAN" PREPARED BY TRC.

FIGURE 2A
HISTORICAL SAMPLING LOCATIONS

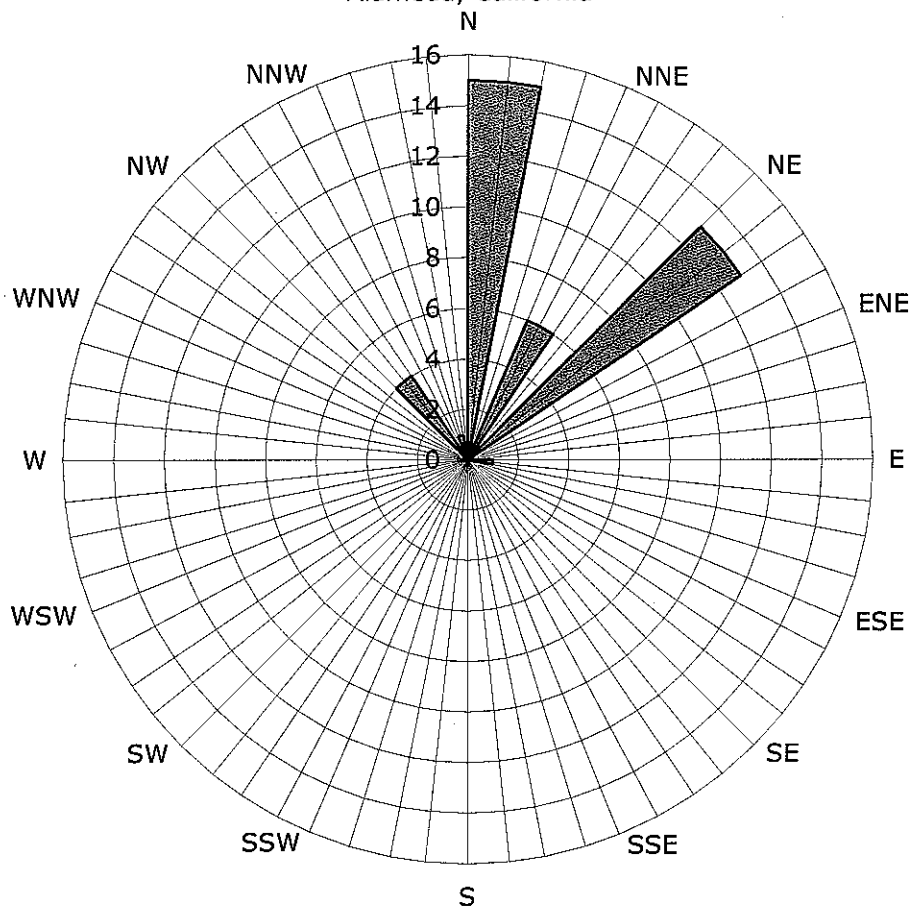
FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C100843	JBB	JH
DATE	REVIEWED BY	FILE NAME
07/08/09		76-0843

DELTA

Figure 3-
Historical Groundwater Flow Direction- Rose diagram

Historic Groundwater Flow Directions
ConocoPhillips Site No. 0843
1629 Webster Street
Alameda, California



Legend
Concentric circles represent quarterly monitoring events
First Quarter 1999 through Second Quarter 2009
40 data points shown

Figure 4-
Dissolved Phase TPHg Groundwater Concentration Map

MS=1:60 0843-003 L:\Graphics\QM3 NORTH-SOUTH\x-0000\0843+20943-QMS11x17.dwg Jun 29, 2009 - 9:13am sakers

LEGEND

MW-11 ⊕ Former 76 Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

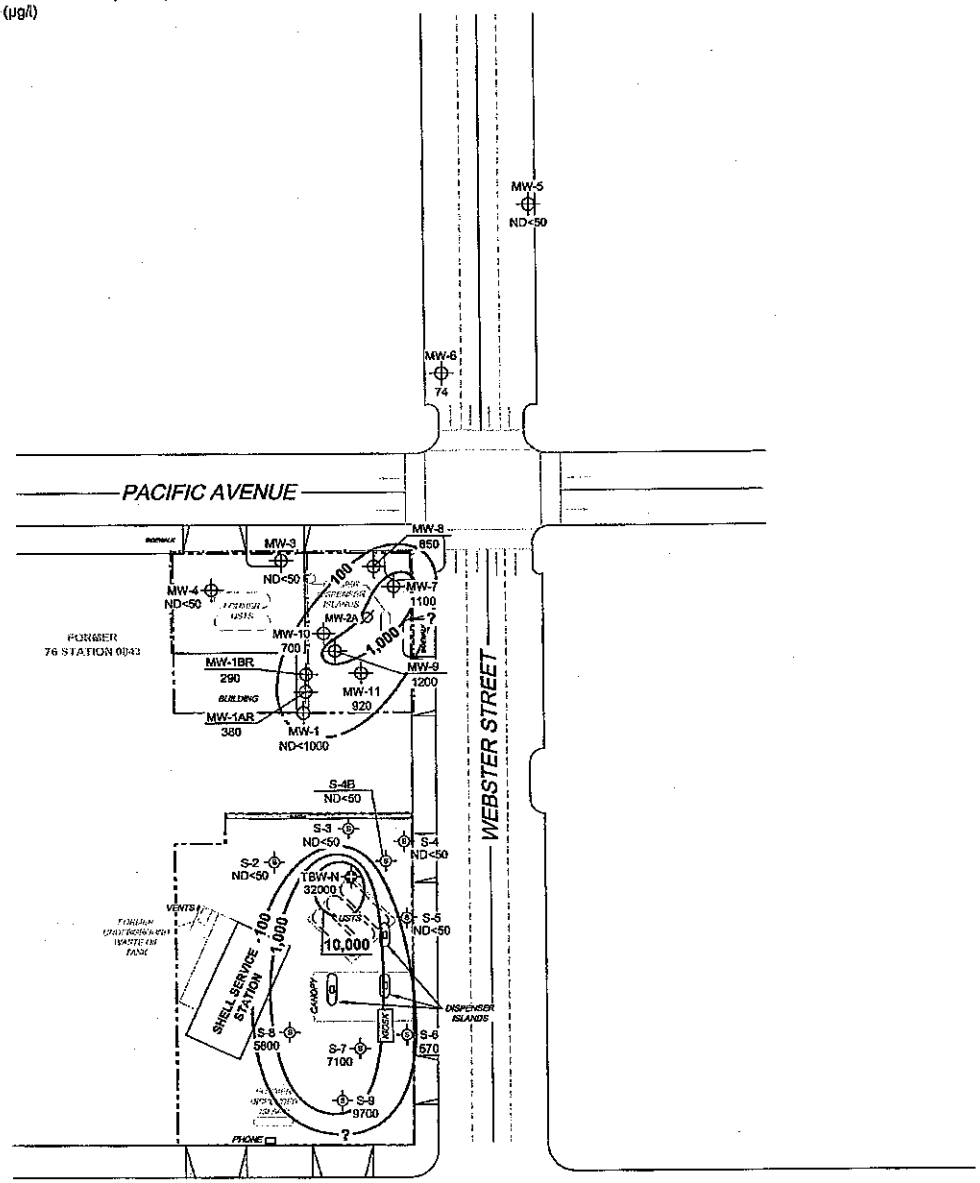
S-9 ⊕ Shell Service Station Monitoring Well

TBW-N ⊕ Shell Tank Backfill Monitoring Well

MW-2A ∅ Abandoned Well

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

N



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.
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. Shell Service Station data provided by CRA.

SCALE (FEET) 0 60	TRC	PROJECT: 165521 FACILITY: FORMER 76 STATION 0843 1629 WEBSTER STREET ALAMEDA, CALIFORNIA	DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATION MAP May 28, 2009 FIGURE 3

Figure 4A-
Dissolved Phase Benzene Groundwater Concentration Map

MS=1:60 0843-003 L:\Graphics\CQMS NORTH-SOUTH\DX-0000\0843+\0843-QMS11x17.dwg Jun 29, 2009 - 9:17am aakers

LEGEND

MW-11 Former 76 Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

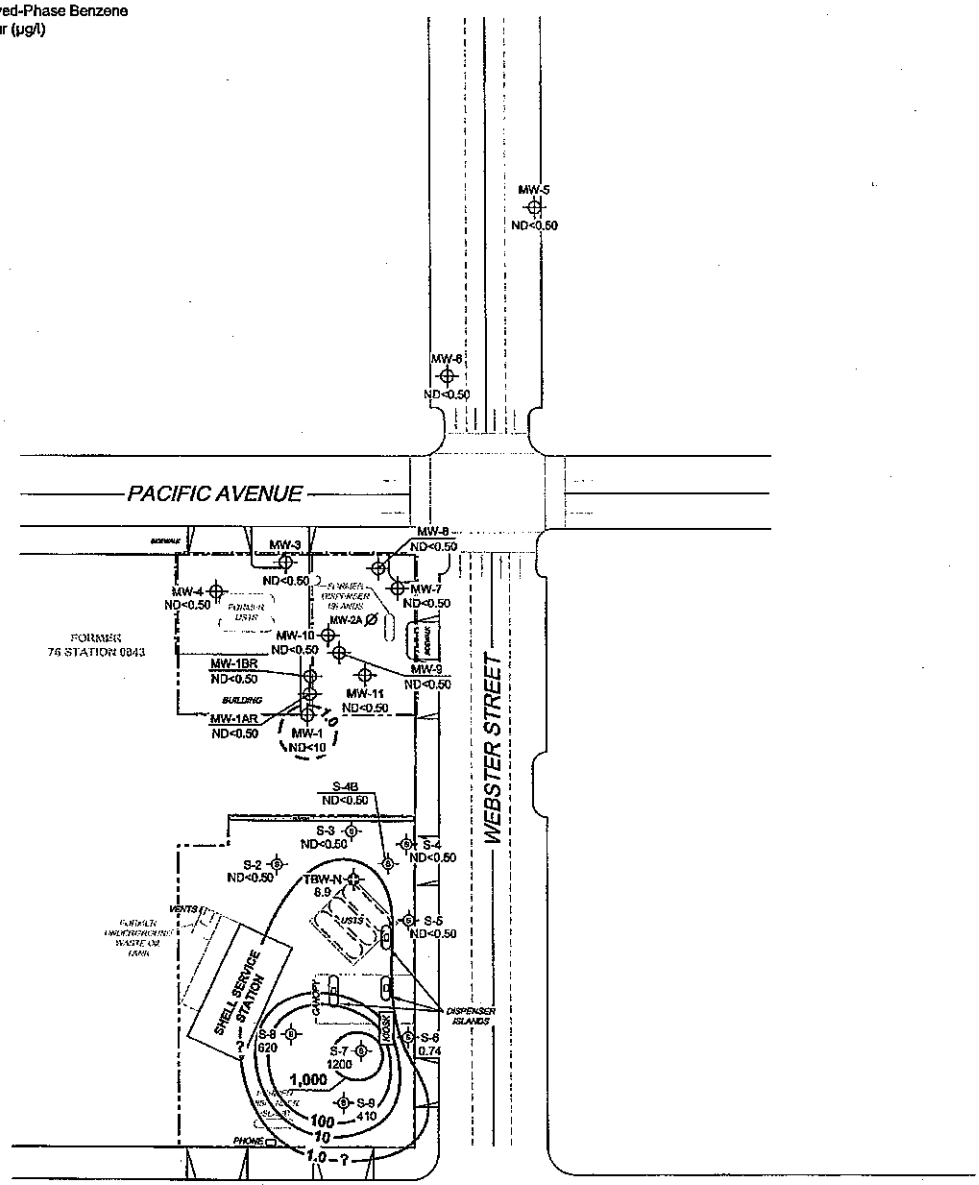
S-9 Shell Service Station Monitoring Well

TBW-N Shell Tank Backfill Monitoring Well

MW-2A Abandoned Well

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

N



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. Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank. Shell Service Station data provided by CRA.

SCALE (FEET)
0 60

TRC

PROJECT: 165521

FACILITY:
FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
May 28, 2009

FIGURE 4

Figure 4B-
Dissolved Phase MTBE Groundwater Concentration Map

MS=1:60 0843-003 L:\DGraphics\QMS NORTH-SOUTH\dx-0000\0843+\0843-QMS11x17.dwg Jun 29, 2009 - 9:25am aakers

LEGEND

MW-11 ⊕ Former 76 Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

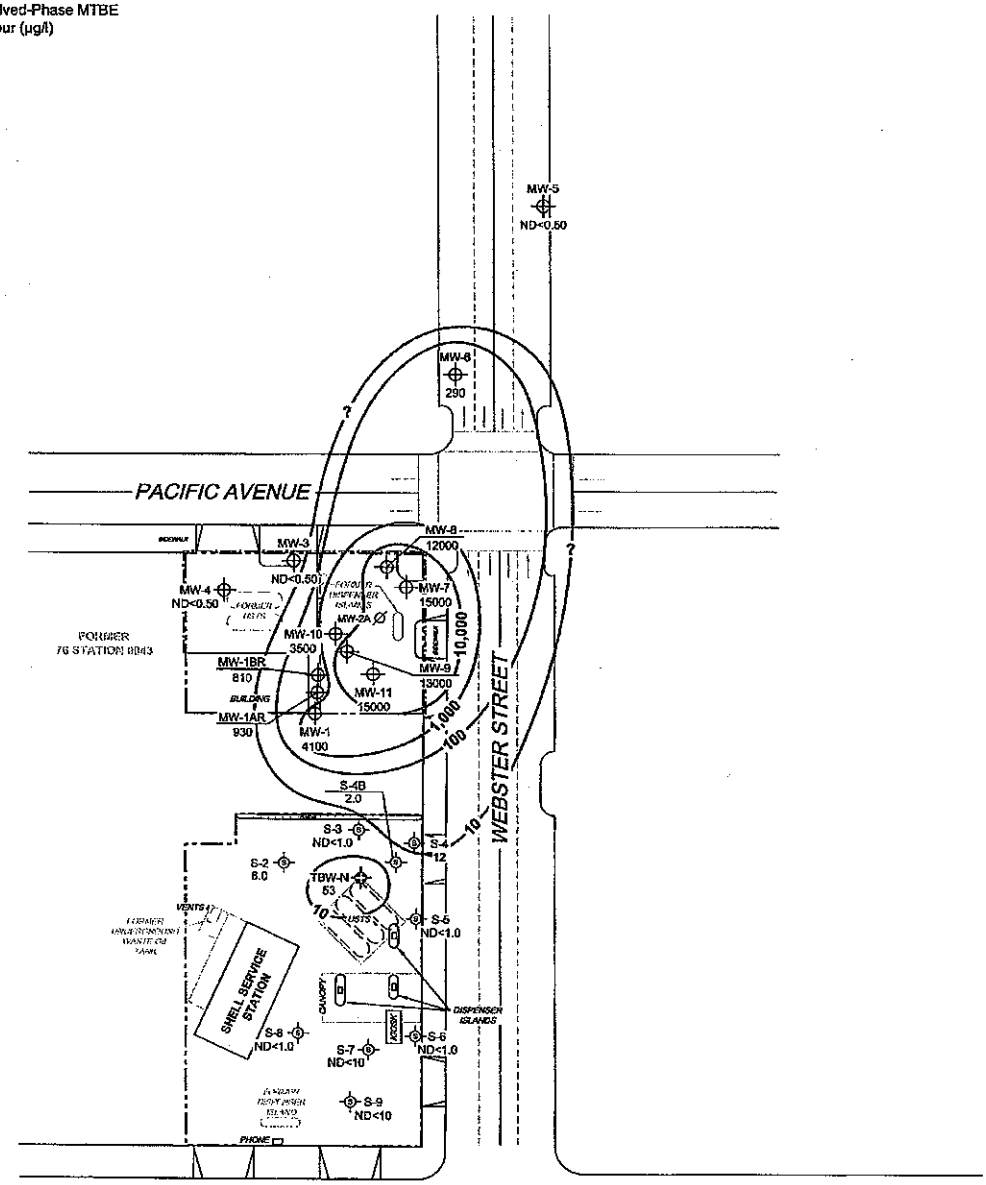
S-9 ⊕ Shell Service Station Monitoring Well

TBW-N ⊕ Shell Tank Backfill Monitoring Well

MW-2A Ø Abandoned Well

—10,000— Dissolved-Phase MTBE Contour (µg/l)

N



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. UST = underground storage tank. Shell Service Station data provided by CRA. Results obtained using EPA Method 8260B.

SCALE (FEET) 0 60	TRC	PROJECT: 165521 FACILITY: FORMER 76 STATION 0843 1629 WEBSTER STREET ALAMEDA, CALIFORNIA	DISSOLVED-PHASE MTBE CONCENTRATION MAP May 28, 2009 FIGURE 5

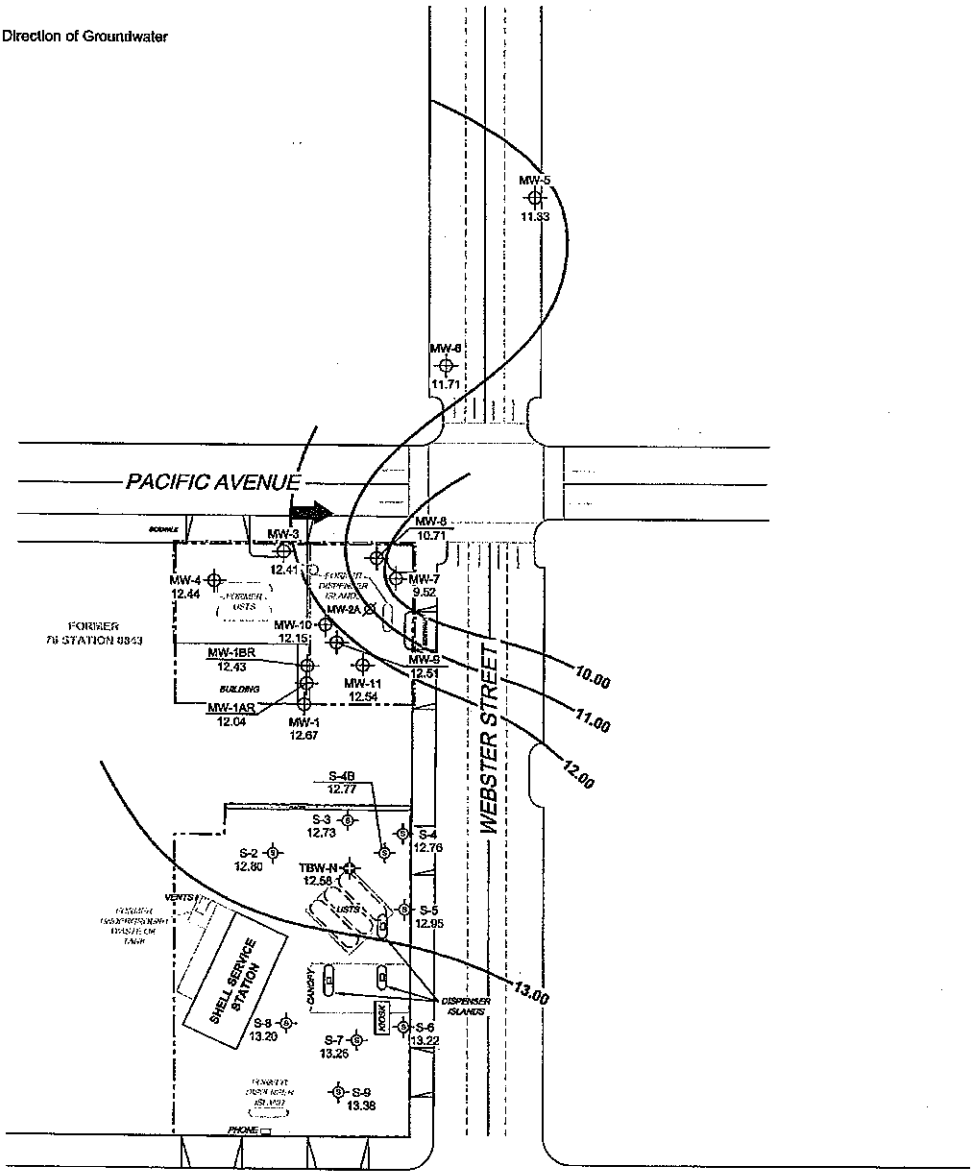
Figure 5-
Groundwater Elevation Contour Map (May 29, 2009)

LEGEND

- MW-11 ⊕ Former 76 Monitoring Well with Groundwater Elevation (feet)
- S-9 ⊕ Shell Service Station Monitoring Well
- TBW-N ⊕ Shell Tank Backfill Monitoring Well
- MW-2A ∅ Abandoned Well
- 13.00 — Groundwater Elevation Contour
- General Direction of Groundwater Flow

DRAFT Figures

N



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. Shell Service Station data provided by CRA.

SCALE (FEET) 0 60	TRC	PROJECT: 165521 FACILITY: FORMER 76 STATION 0843 1629 WEBSTER STREET ALAMEDA, CALIFORNIA	GROUNDWATER ELEVATION CONTOUR MAP May 28, 2009 **FIGURE 2**

Figure 6-
Monitoring Well Construction Diagram MW-1AR

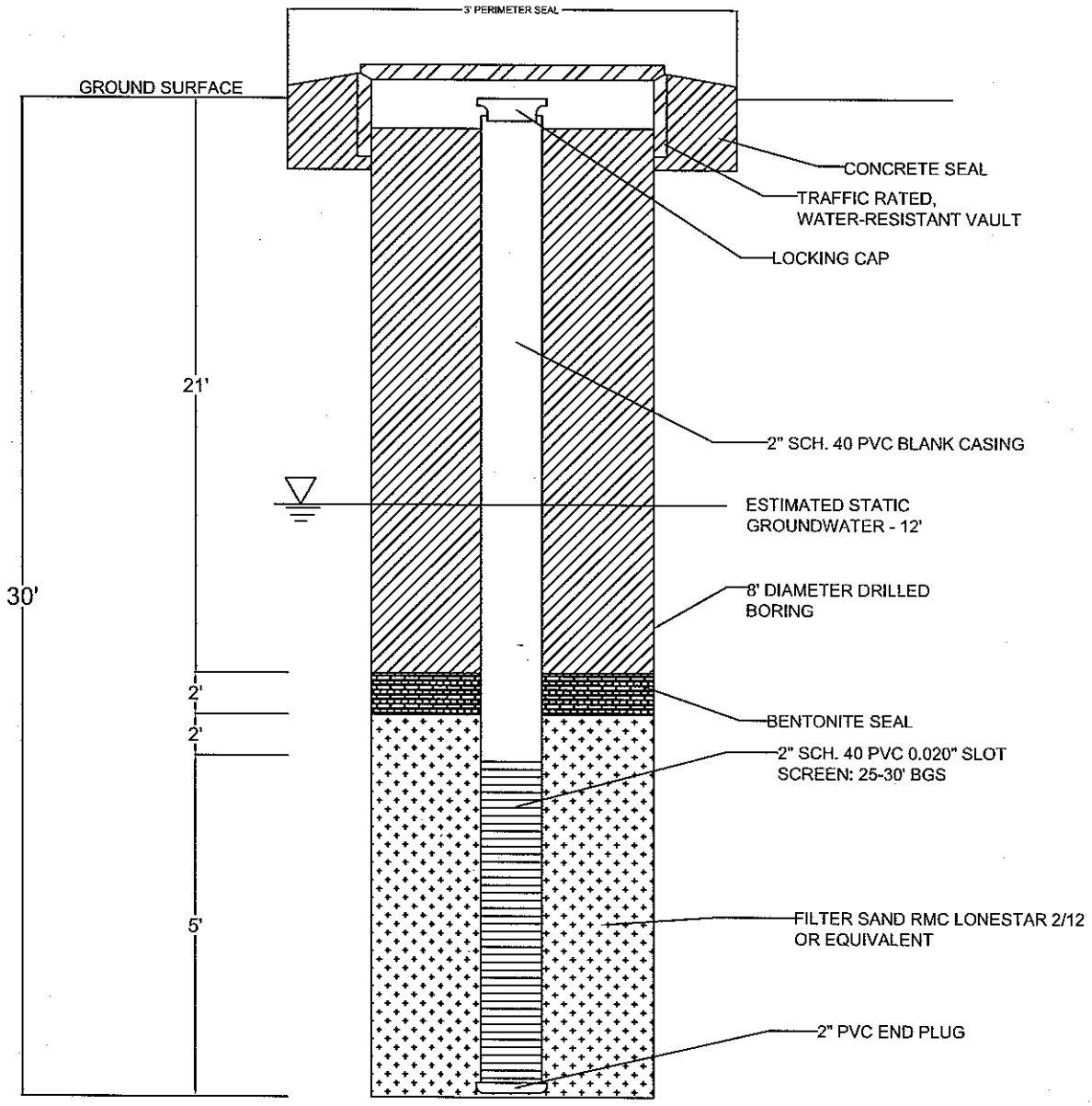


FIGURE 6

REPLACEMENT GROUNDWATER
MONITORING WELL 1AR CONSTRUCTION DETAIL

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO. C100-843	DRAWN BY JH 07/06/09
FILE NO. 0843-WELLDETAIL	PREPARED BY CM
REVISION NO.	REVIEWED BY JBB

DELTA®

Figure 6A-
Monitoring Well Construction Diagram MW-1BR

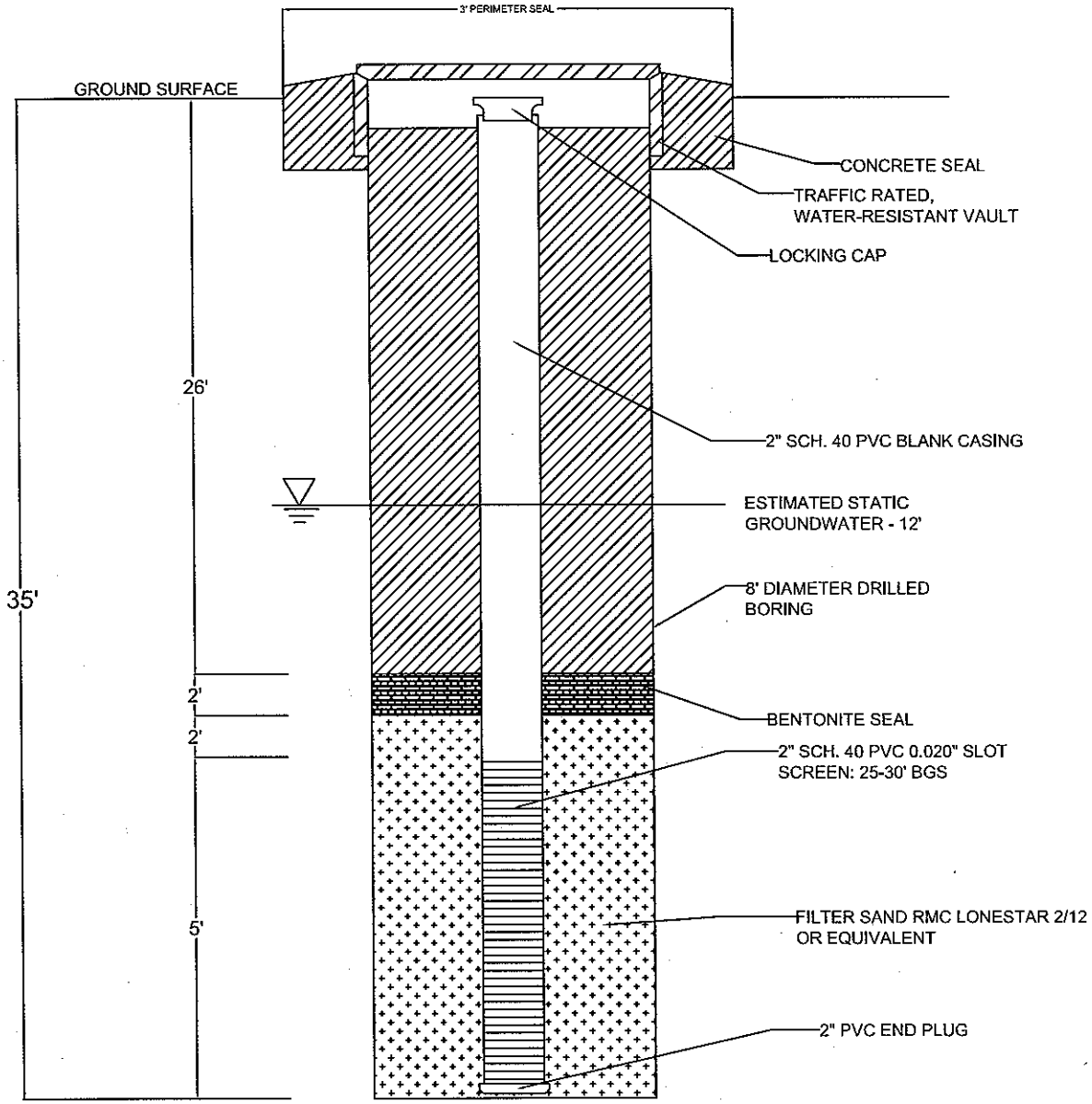


FIGURE 6A

REPLACEMENT GROUNDWATER
MONITORING WELL 1BR CONSTRUCTION DETAIL

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO. C100-843	DRAWN BY JH 07/06/09
FILE NO. 0843-WELLDETAIL	PREPARED BY CM
REVISION NO.	REVIEWED BY JBB

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Figure 6B-
Monitoring Well Construction Diagram MW-7

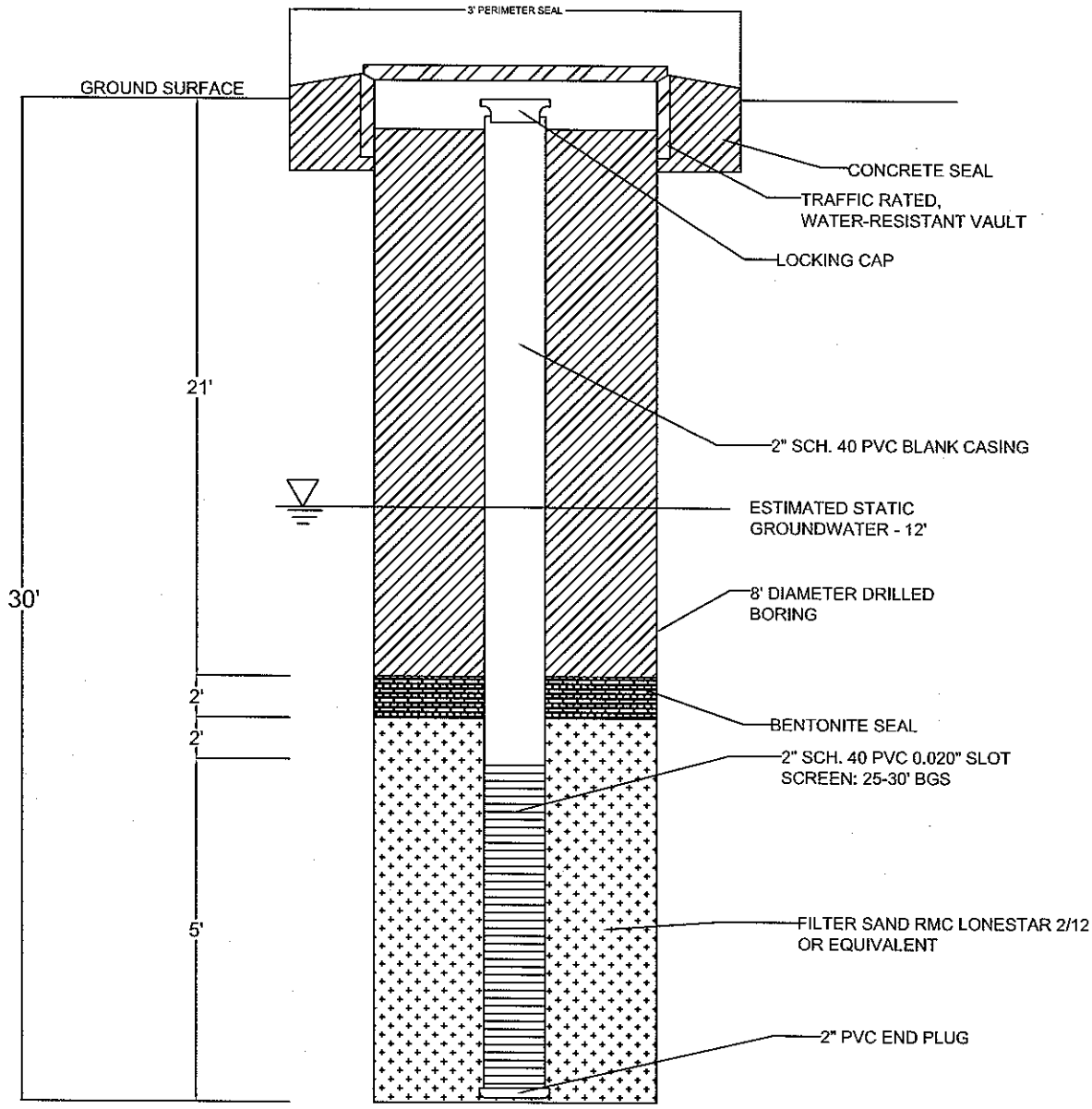

FIGURE 6B

REPLACEMENT GROUNDWATER
MONITORING WELL 7 CONSTRUCTION DETAIL

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO. C100-843	DRAWN BY JH 07/06/09
FILE NO. 0843-WELLDETAIL	PREPARED BY CM
REVISION NO.	REVIEWED BY JBB

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Figure 6C-
Monitoring Well Construction Diagram MW-8

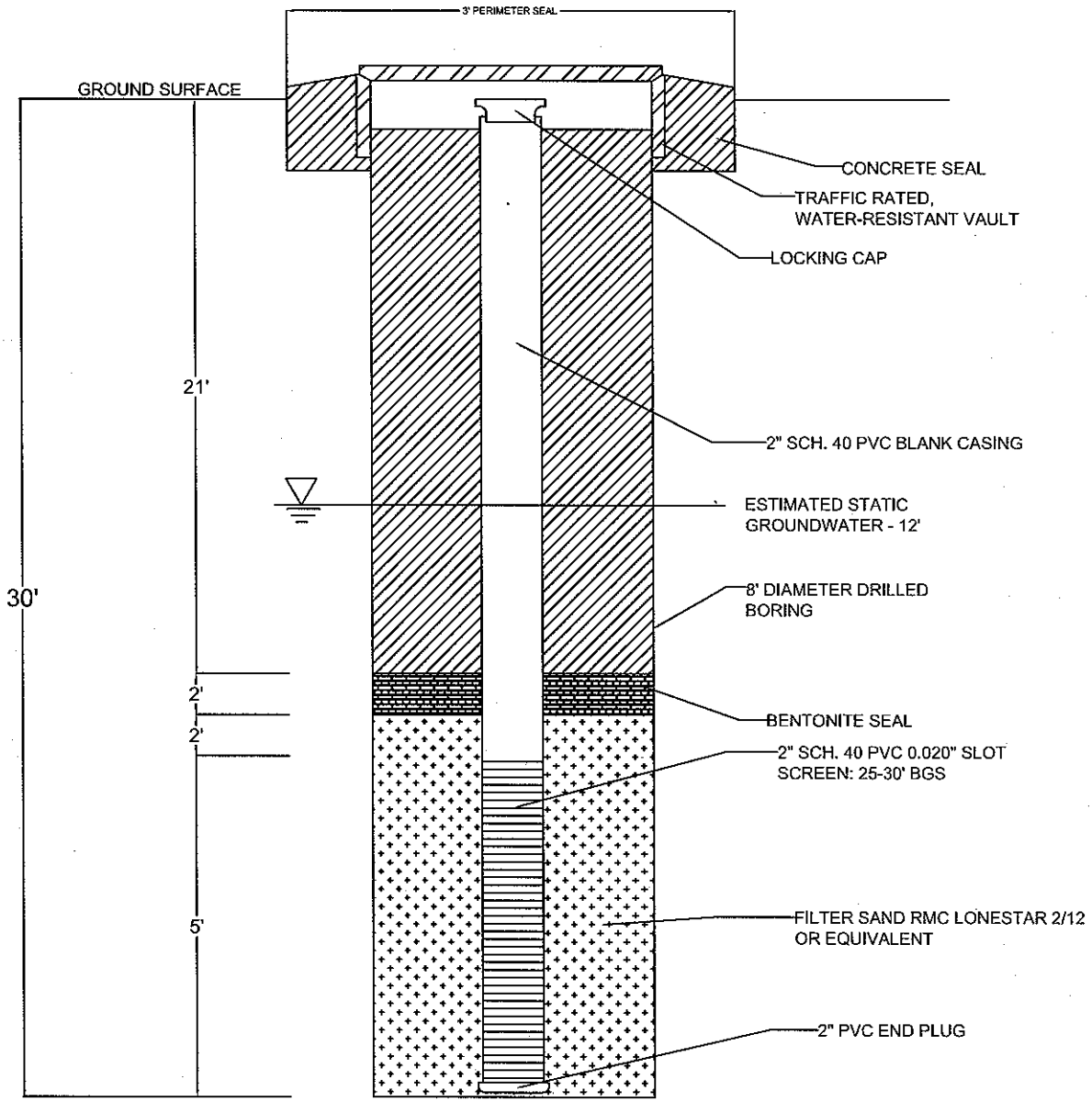

FIGURE 6C

REPLACEMENT GROUNDWATER
MONITORING WELL 8 CONSTRUCTION DETAIL

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO. C100-843	DRAWN BY JH 07/06/09
FILE NO. 0843-WELLDETAIL	PREPARED BY CM
REVISION NO.	REVIEWED BY JBB

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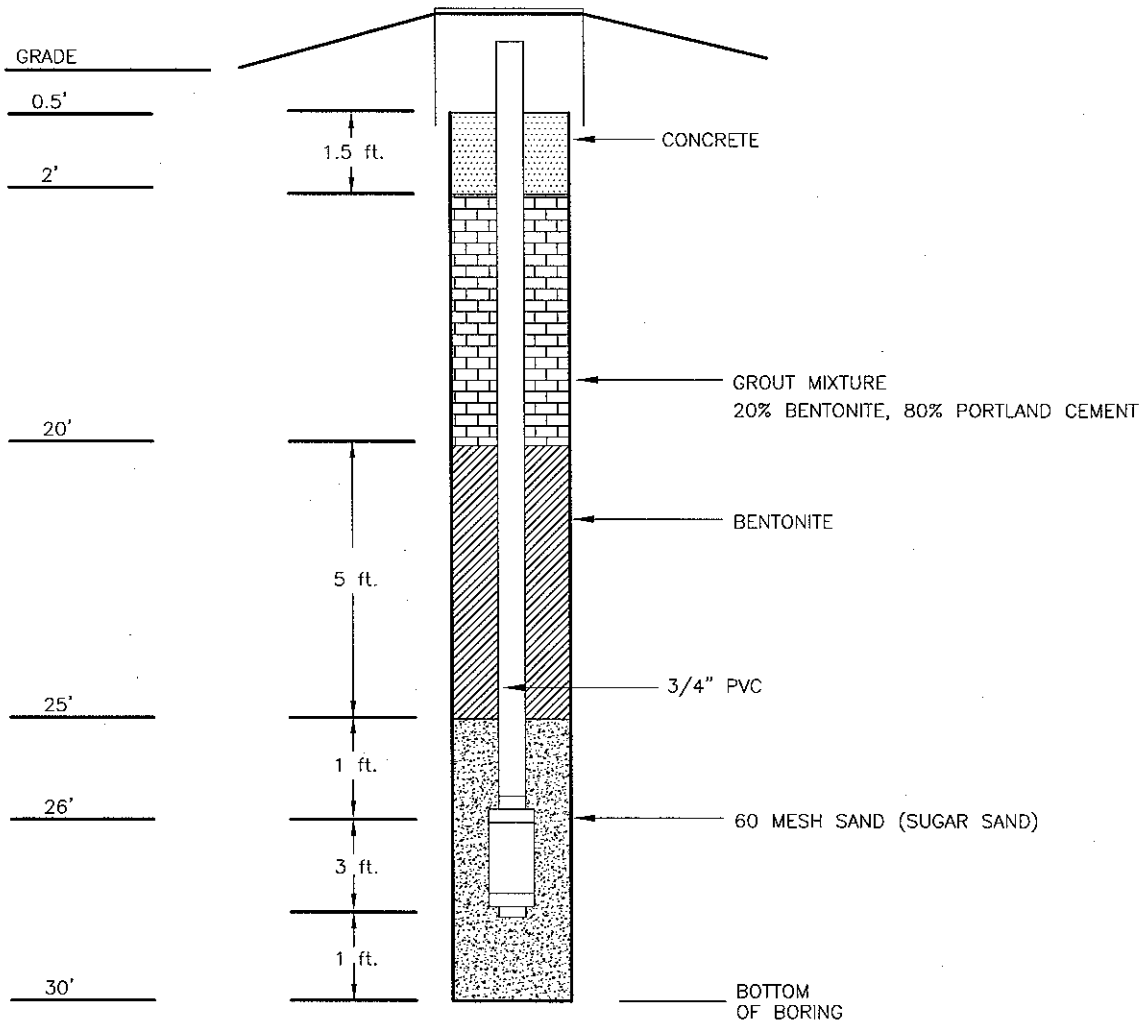
Figure 7-
Sparge Well Diagram TSP-1



NOTES:

1. NOT DRAWN TO SCALE
2. DEPTH MEASUREMENTS AND INTERVALS ARE APPROXIMATE. ACTUAL WELL DESIGN WILL BE BASED ON EXPLORATORY BORING AND SITE CONDITIONS

FIGURE 7
TEST SPARGE POINT CONSTRUCTION DETAILS
FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C100843	JBB	JH
DATE	REVIEWED BY	FILE NAME
07/06/09		0843-ProSP

DELTA®

Figure 8-
Monitoring Well Construction Diagram MW-9

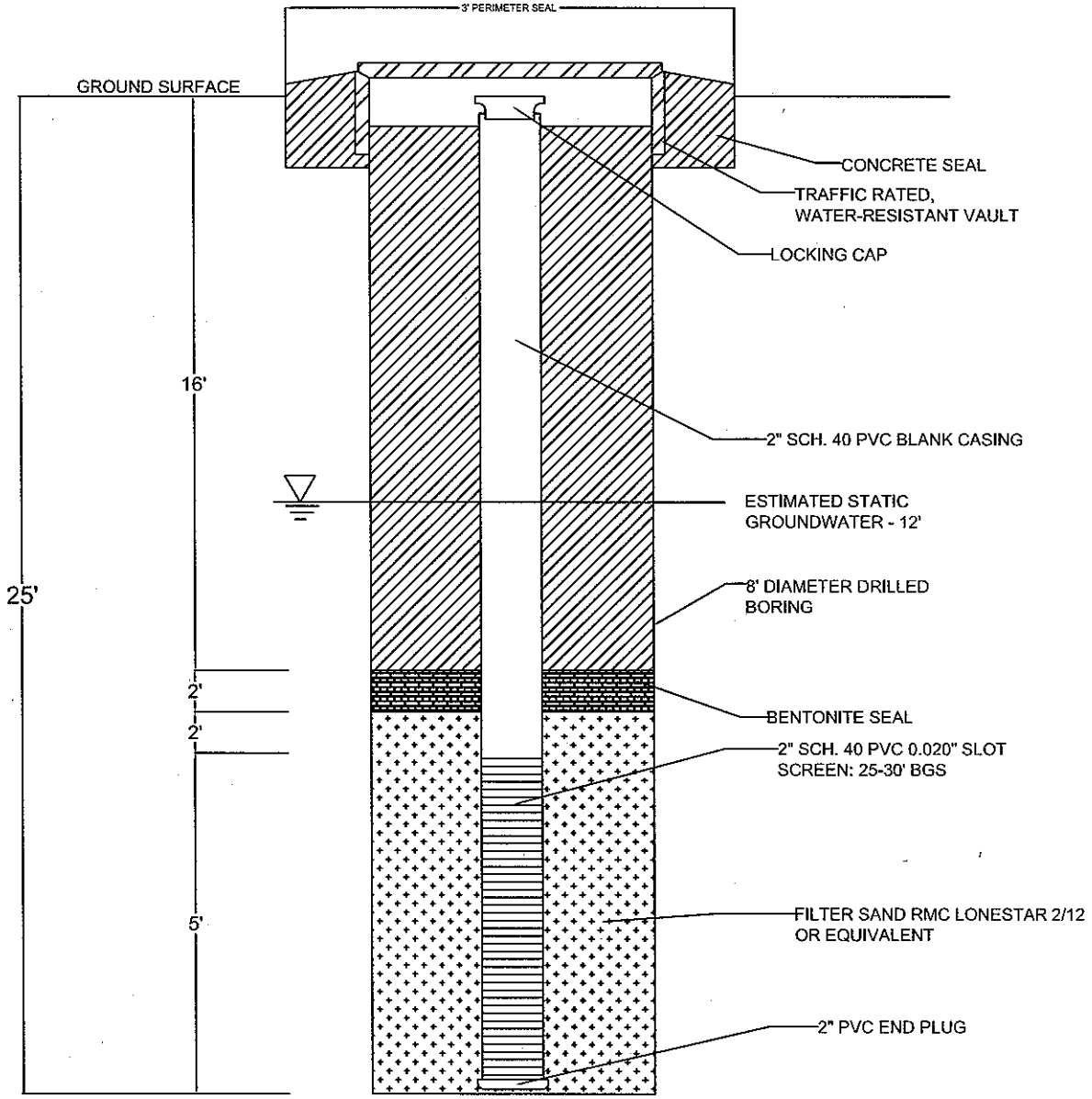


FIGURE 8

REPLACEMENT GROUNDWATER
MONITORING WELL 9 CONSTRUCTION DETAIL

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO. C100-843	DRAWN BY JH 07/06/09
FILE NO. 0843-WELLDETAIL	PREPARED BY CM
REVISION NO.	REVIEWED BY JBB

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Figure 8A-
Monitoring Well Construction Diagram MW-10

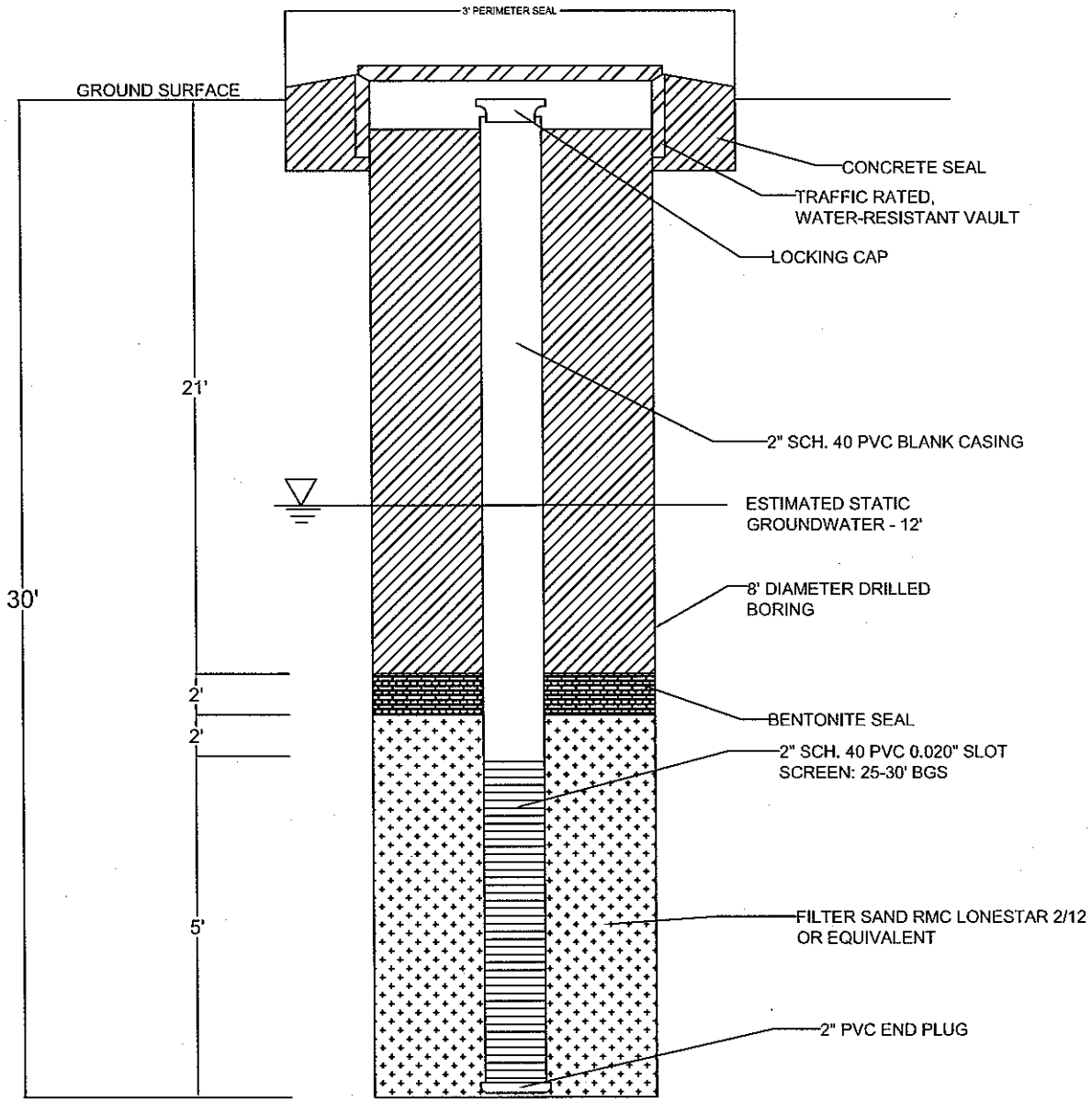

FIGURE 8A

REPLACEMENT GROUNDWATER
MONITORING WELL 10 CONSTRUCTION DETAIL

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO. C100-843	DRAWN BY JH 07/06/09
FILE NO. 0843-WELLDETAIL	PREPARED BY CM
REVISION NO.	REVIEWED BY JBB

DELTA®

Figure 8B-
Monitoring Well Construction Diagram MW-11

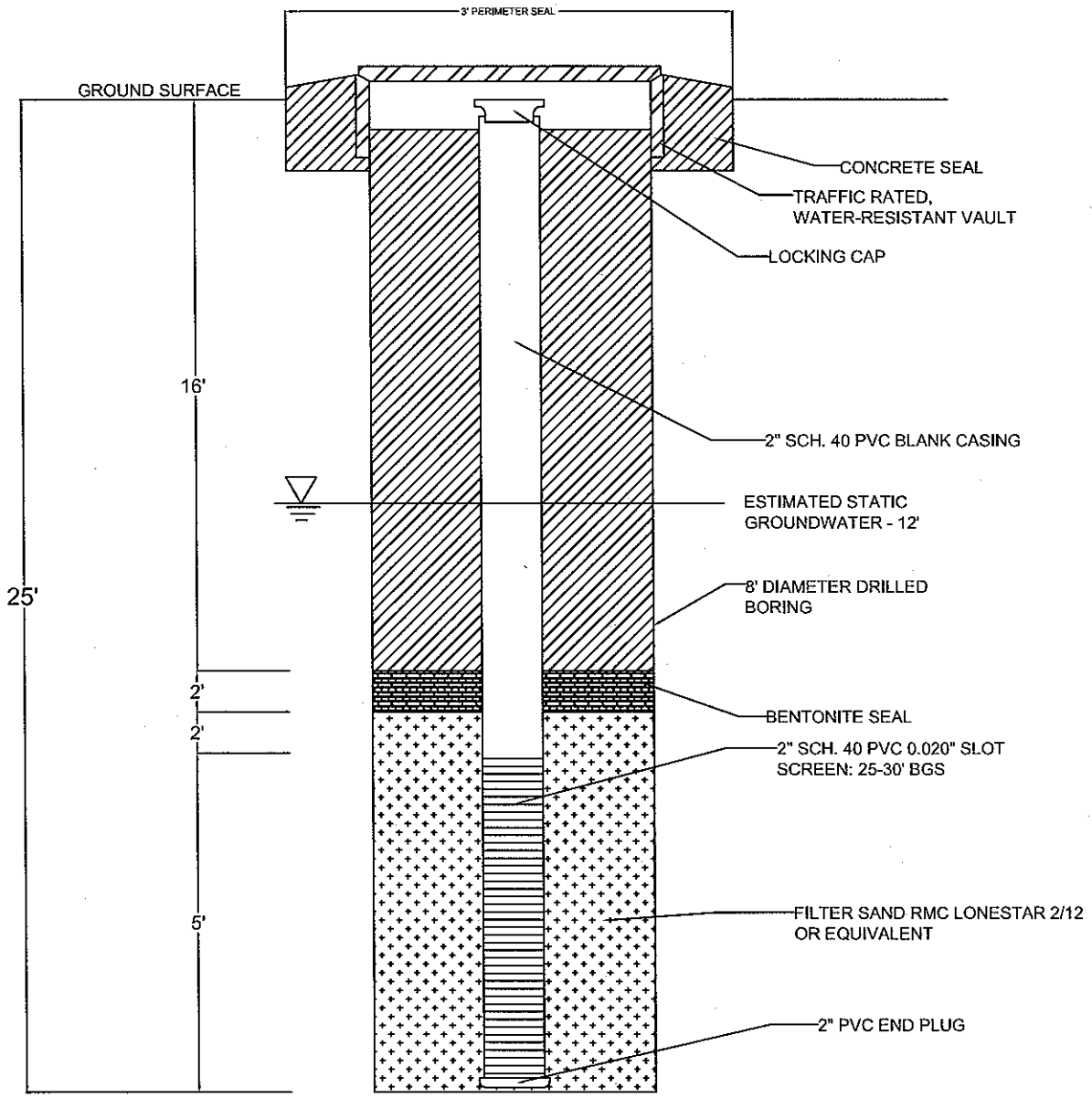

FIGURE 8B

REPLACEMENT GROUNDWATER
MONITORING WELL 11 CONSTRUCTION DETAIL

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO. C100-843	DRAWN BY JH 07/06/09
FILE NO. 0843-WELLDETAIL	PREPARED BY CM
REVISION NO.	REVIEWED BY JBB

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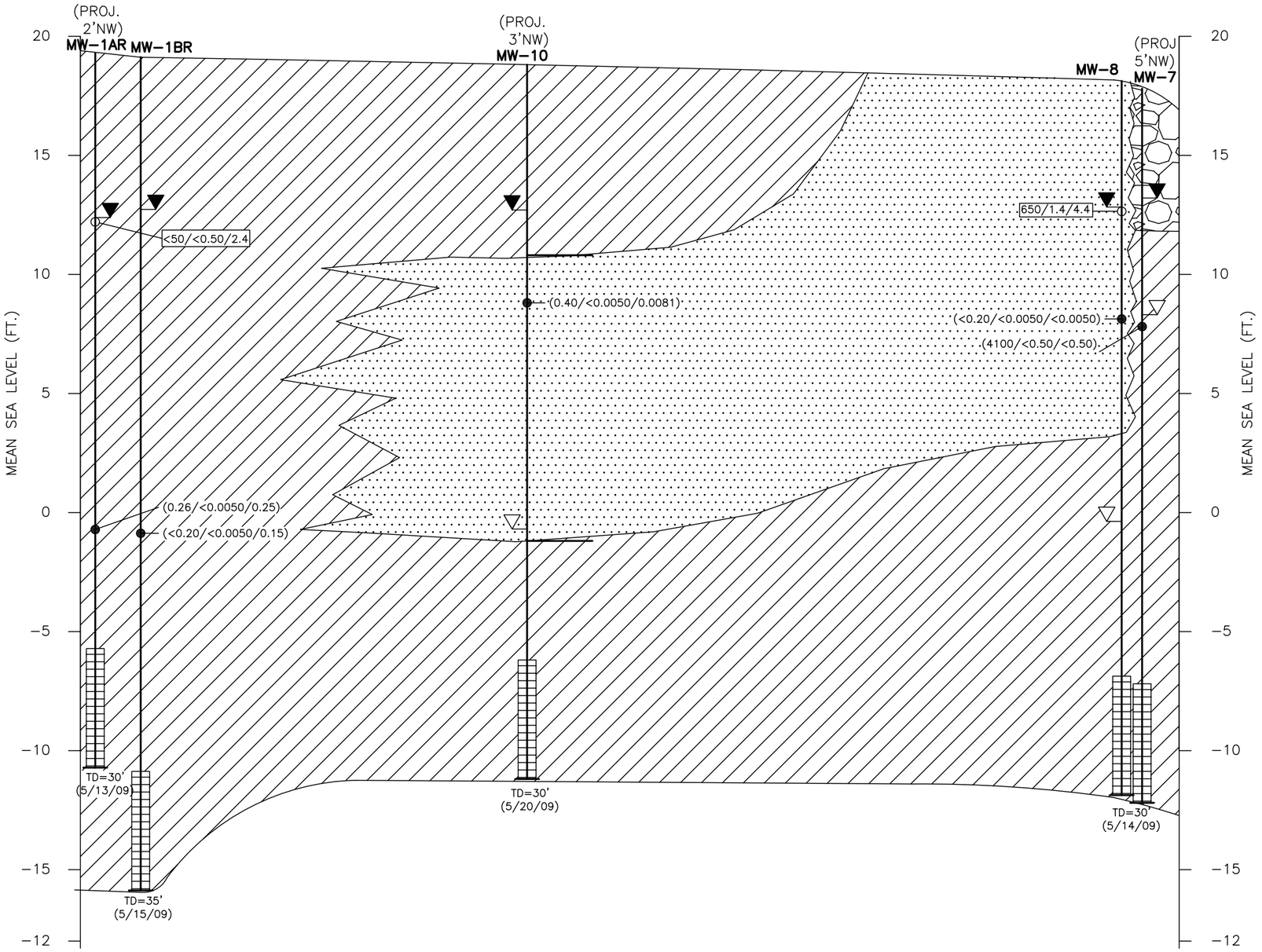
Figure 9-
Cross Section A-A′

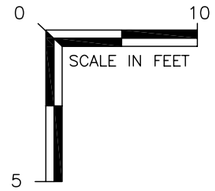
SOUTHWEST A — NORTHEAST A'

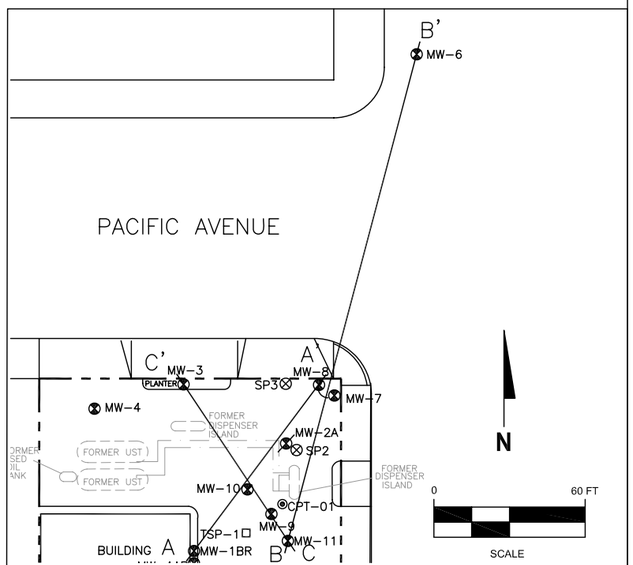


NOTES:

1) <0.50=NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
TPPH=TOTAL PURGEABLE PETROLEUM HYDROCARBONS
MTBE=METHYL TERT BUTYL ETHER
ug/L=MICROGRAMS PER LITER
mg/kg=MILLIGRAMS PER KILOGRAM

2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.





LEGEND

- MW-1 — BORING/MONITORING WELL NAME
- EXPLORATORY BORING/WELL CASING
- SOIL SAMPLE LOCATION
- WELL SCREEN
- TD=30' (5/13/09) — TOTAL DEPTH / DRILLING DATE
- DEPTH TO STATIC GROUNDWATER
- DEPTH TO FIRST ENCOUNTERED GROUNDWATER DURING DRILLING
- (0.26/<0.0050/0.25) — SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPPH, BENZENE, MTBE (mg/kg)
- <50/<0.50/2.4 — GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPPH, BENZENE, MTBE (ug/L)
- FILL
- MEDIUM PERMEABILITY (SM, SC)
- HIGH PERMEABILITY (SW, SW-SM, SW-SC, SP, SP-SC, SP-SM)
- APPROXIMATE STRATIGRAPHIC BOUNDARY

FIGURE 3
GEOLOGIC CROSS SECTION A-A'

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

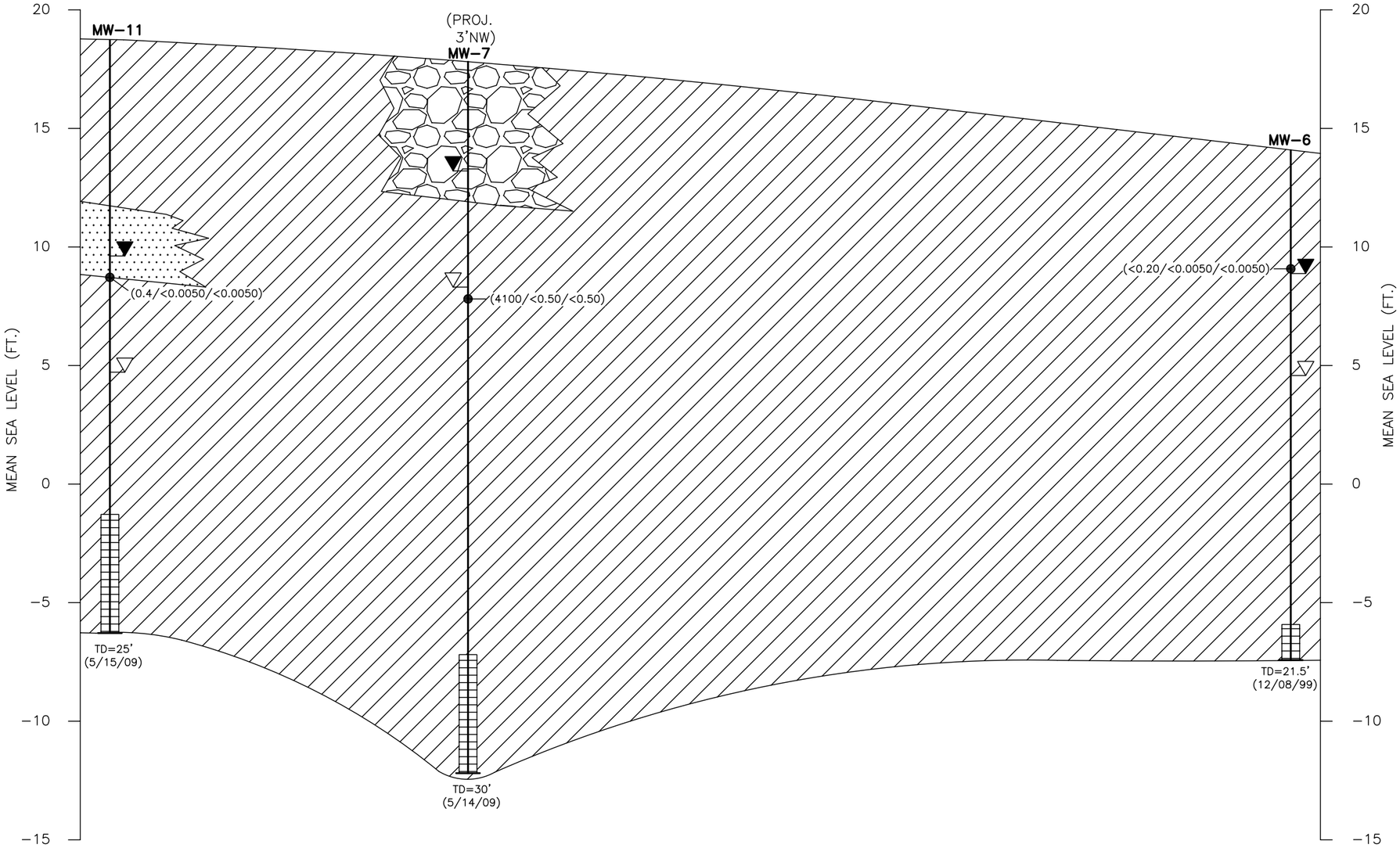
PROJECT NO.	PREPARED BY	DRAWN BY
C100843	CM	JH
DATE	REVIEWED BY	FILE NAME
06/10/09	JB	76-0843

DELTA®

Figure 9A-
Cross Section B-B′

SOUTH B

NORTH B'

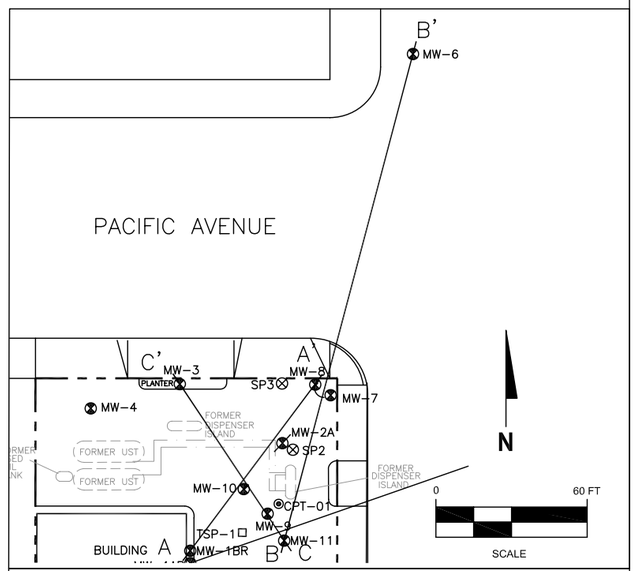


NOTES:

1) <0.50=NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
NA=NOT ANALYZED
TPPH=TOTAL PURGEABLE PETROLEUM HYDROCARBONS
MTBE=METHYL TERT BUTYL ETHER
ug/L=MICROGRAMS PER LITER
mg/kg=MILLIGRAMS PER KILOGRAM

2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

0 20
SCALE IN FEET
5



LEGEND

MW-1
TD=30' (5/13/09)
BORING/MONITORING WELL NAME
EXPLORATORY BORING/WELL CASING
SOIL SAMPLE LOCATION
WELL SCREEN
TOTAL DEPTH
DRILLING DATE

DEPTH TO STATIC GROUNDWATER

DEPTH TO FIRST ENCOUNTERED GROUNDWATER DURING DRILLING

(0.26/<0.0050/0.25)
SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPPH, BENZENE, MTBE (mg/kg)

<50/<0.50/2.4
GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPPH, BENZENE, MTBE (ug/L)

FILL

MEDIUM PERMEABILITY (SM, SC)

HIGH PERMEABILITY (SW, SW-SM, SW-SC, SP, SP-SC, SP-SM)

APPROXIMATE STRATIGRAPHIC BOUNDARY

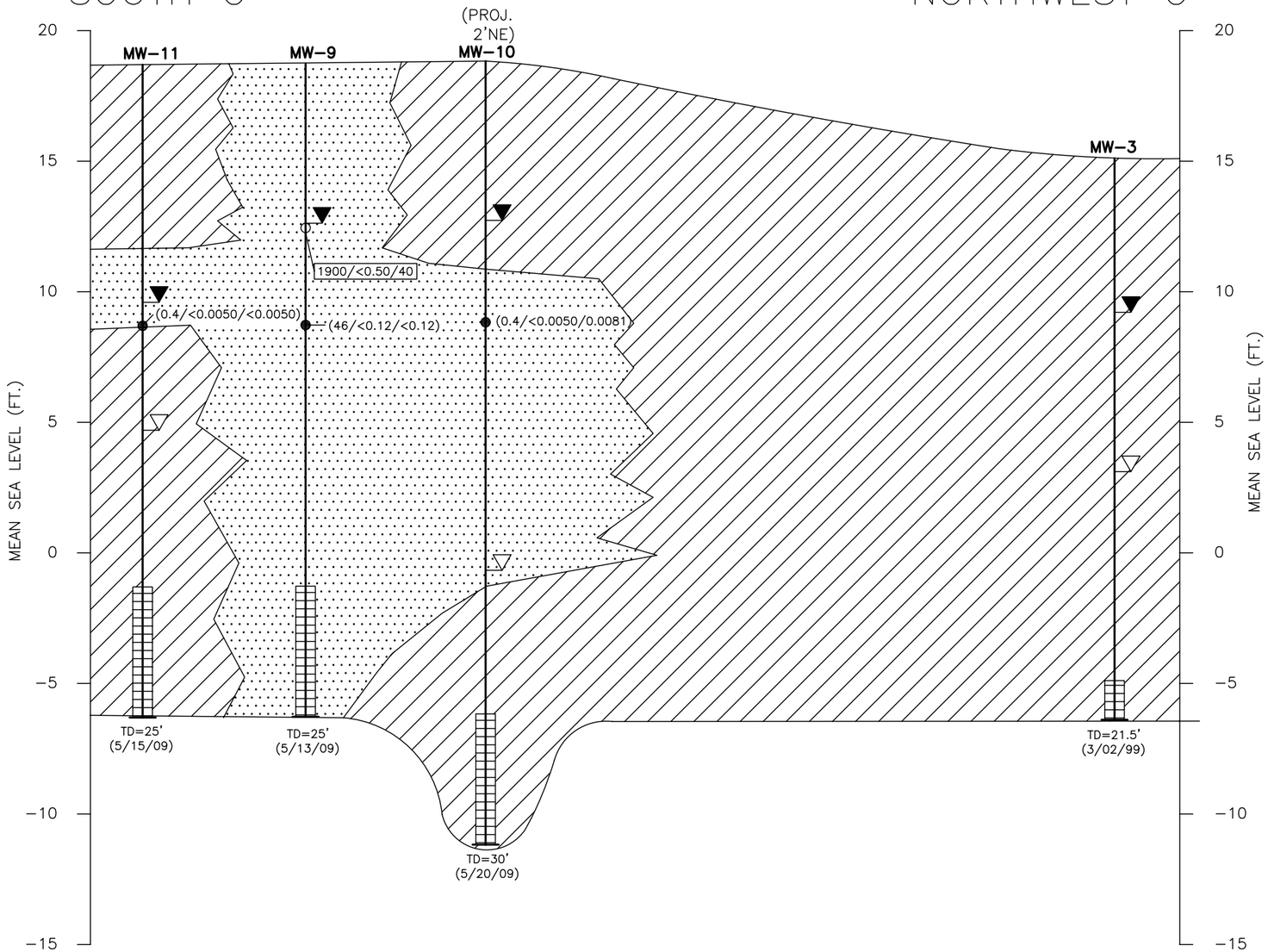
FIGURE 9A
GEOLOGIC CROSS SECTION B-B'

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C100843	CM	JH
DATE	REVIEWED BY	FILE NAME
07/06/09	JB	76-0843

DELTA®

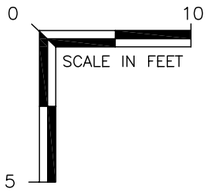
Figure 9B-
Cross Section C-C′

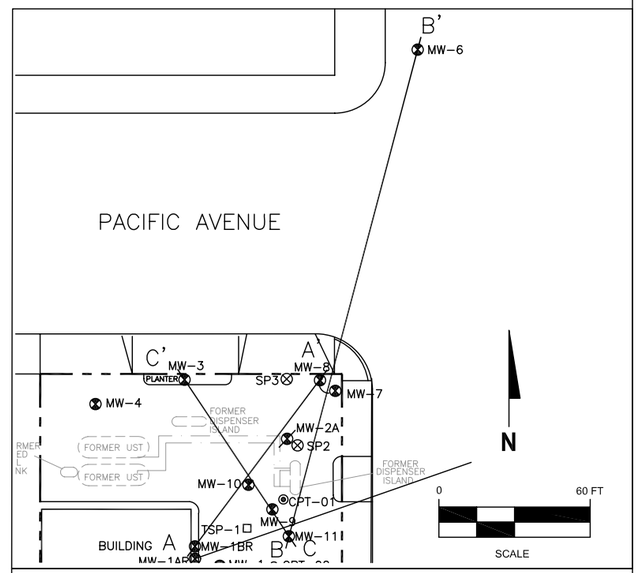


NOTES:

1) <0.50=NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
NA=NOT ANALYZED
TPPH=TOTAL PURGEABLE PETROLEUM HYDROCARBONS
MTBE=METHYL TERT BUTYL ETHER
ug/L=MICROGRAMS PER LITER
mg/kg=MILLIGRAMS PER KILOGRAM

2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.





LEGEND

MW-1 / TD=30' (5/13/09) — BORING/MONITORING WELL NAME; EXPLORATORY BORING/WELL CASING; SOIL SAMPLE LOCATION; WELL SCREEN; TOTAL DEPTH DRILLING DATE

DEPTH TO STATIC GROUNDWATER

DEPTH TO FIRST ENCOUNTERED GROUNDWATER DURING DRILLING

(0.26/<0.0050/0.25) — SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPPH, BENZENE, MTBE (mg/kg)

<50/<0.50/2.4 — GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPPH, BENZENE, MTBE (ug/L)

MEDIUM PERMEABILITY (SM, SC)

HIGH PERMEABILITY (SW, SW-SM, SW-SC, SP, SP-SC, SP-SM)

APPROXIMATE STRATIGRAPHIC BOUNDARY

FIGURE 9B
GEOLOGIC CROSS SECTION C-C'

FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C100843	CM	JH
DATE	REVIEWED BY	FILE NAME
07/06/09	JB	76-0843

DELTA®

Appendix A-
ACEH Letter, Dated April 9, 2009

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RECEIVED
APR 1 3 2009

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

April 9, 2009

Terry Grayson
76 Broadway
Sacramento, CA 95818

Sam and Michele Koka
802 Pacific Avenue
Alameda, CA 94501

Subject: Fuel Leak Case No. RO0000450 and Geotracker Global ID T0600102263, Unocal #0843, 1629 Webster St., Alameda, CA 94501

Dear Mr. Grayson and Mr. and Mrs. Koka:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the document entitled; *Work Plan – Site Investigation and Monitoring Well Installation* dated March 16, 2009 with well locations amended as per the map submitted April 3, 2009. The work plan modifies the previously submitted work plan dated February 18, 2009. This work plan proposes advancing one CPT boring to confirm results of CPT-01, decommissioning and replacing MW-1 and MW-2 with a total of 4 depth discrete wells, installing one temporary ozone sparge well with three additional monitoring wells to monitor. We generally concur with the proposed scope of work. The proposed work scope may be implemented provided that the modifications requested in the technical comments below are addressed and incorporated during field implementation. Submission of a revised work plan is not required. Please provide 72-hour hour advance written notification to me (e-mail preferred) prior to the start of field activities. Please submit the required reports by the due dates below.

TECHNICAL COMMENTS

1. **Water Sample Analysis** – We concur with your proposed analyses. However, if initial tests do not detect ethanol, we request that you discontinue analyzing for this constituent.

TECHNICAL REPORT REQUEST

Please conduct the proposed work and submit technical reports to Alameda County Environmental Health (Attention: Barbara Jakub), according to the following schedule:

- **June 10, 2009** – Pilot test work plan
- **July 10, 2009** – Soil and Water Investigation Report

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.

If you have any questions, 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

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: James Barnard, Delta Consultants, 11050 White Rock Rd., Suite 110 Rancho Cordova, CA 95670
Donna Drogos, ACEH
Barbara Jakub, ACEH
File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: December 16, 2005
	PREVIOUS REVISIONS: October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

Effective **January 31, 2006**, 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 ftp site Coordinator.
   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 at 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)

Appendix B-
Alameda County Public Works Agency Drilling Permit
(May 7, 2009)

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: 05/07/2009 By jamesy

Permit Numbers: W2009-0353 to W2009-0361
Permits Valid from 05/12/2009 to 07/27/2009

Application Id: 1240267604913
Site Location: 1629 Webster Street

City of Project Site: Alameda

located on the southwest corner of Webster Street and Pacific Avenue; lot description - paved over empty lot with anchor chain fence around site

Project Start Date: 05/12/2009

Completion Date: 07/27/2009

Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: Delta Consultants, Inc. - James Barnard
11050 White Rock Road, Rancho Cordova, CA 95670
Phone: 916-503-1279

Property Owner: Conoco Phillips
76 Broadway, Sacramento, CA 94501
Phone: 916-558-7666

Client: Jim Barnard Delta Consultants, Inc
11050 White Rock Road, Rancho Cordova, CA 95670
Phone: 916-508-1279 x

Total Due: $2990.00
Receipt Number: WR2009-0165 **Total Amount Paid:** $2990.00
Payer Name : Delta Consultants, Inc. Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 7 Wells
Driller: RSI Drilling, Inc. - Lic #: 802344 - Method: auger

Work Total: $2415.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-0353	05/07/2009	08/10/2009	MW-10	8.00 in.	2.00 in.	23.00 ft	30.00 ft
W2009-0354	05/07/2009	08/10/2009	MW-11	8.00 in.	2.00 in.	21.00 ft	28.00 ft
W2009-0355	05/07/2009	08/10/2009	MW-1AR	8.00 in.	2.00 in.	23.00 ft	30.00 ft
W2009-0356	05/07/2009	08/10/2009	MW-1BR	8.00 in.	2.00 in.	28.00 ft	35.00 ft
W2009-0357	05/07/2009	08/10/2009	MW-7	8.00 in.	2.00 in.	18.00 ft	25.00 ft
W2009-0358	05/07/2009	08/10/2009	MW-8	8.00 in.	2.00 in.	23.00 ft	30.00 ft
W2009-0359	05/07/2009	08/10/2009	MW-9	8.00 in.	2.00 in.	18.00 ft	25.00 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. Permitte, 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.

Remediation Well Construction-Injection - 1 Wells
Driller: RSI Drilling, Inc. - Lic #: 802344 - Method: auger **Work Total: $230.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-0360	05/07/2009	08/10/2009	TSP-1	8.00 in.	0.75 in.	20.00 ft	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled

according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. 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.

4. 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.

5. 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.

6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

7. Permitte, 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.

8. 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.

9. Minimum seal depth (Neat Cement Seal) is 2 feet below ground surface (BGS).

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

---

Well Destruction-Monitoring - 1 Wells
Driller: RSI Drilling, Inc. - Lic #: 802344 - Method: auger **Work Total: $345.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2009-0361	05/07/2009	08/10/2009	MW-2A	8.00 in.	2.00 in.	5.00 ft	12.00 ft			

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. 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.

3. 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.

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

5. 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 and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

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. Permitte, 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.

8. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

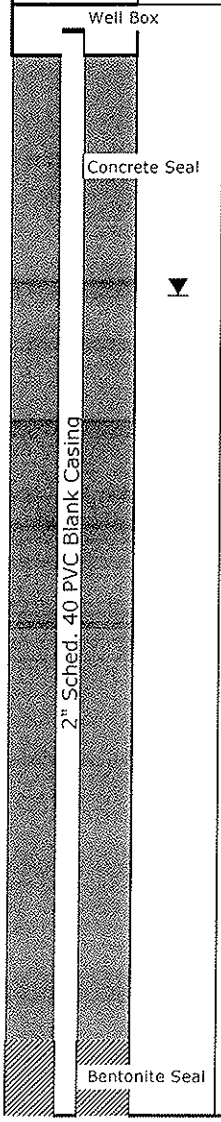
After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

9. 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.

Appendix C-
Boring Logs

Delta Consultants

Project No: C102349210	Client: **ConocoPhillips**	Well No: **MW-1AR**
Logged By: Alan Buehler	Location: **1629 Webster Street**	Date Drilled: 5/13/09
Driller: **RSI Drilling**	**Alameda, California**	Page **1** of **2**
Drilling Method: Hollow Stem Auger	Hole Diameter: 8"	
Sampling Method: Split Spoon	Hole Depth: 35'	▽ = First Water
Casing Type: Sched. 40 PVC	Well Diameter: 2"	▼ = Static Groundwater
Slot Size: 0.02	Well Depth: 30.5'	
Gravel Pack: Filter Sand	First Water Depth: N/A	
Elevation	Northing	Easting



Depth (feet)	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
1				Air-Knife				Silty sand; trace clay with gravel.
2								
3								
4								
5	moist	0.0					SM	Silty sand; light brown.
6								
7							SM	Same as above.
8								
9							SM	Same as above.
10	moist	0.1					SM	Silty sand with gravel; dark brown.
11								
12							SM	Silty sand; light brown
13								
14								
15	wet	1.3					SM	Same as above.
16								
17								
18								
19								
20	sat.	2.9		11:23 @ 20'			SM	Encountered heaving sands to total depth of boring.
21								
22								

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-1AR**
Logged By:	Alan Buehler	Location: **1629 Webster Street** Alameda, California	Date Drilled: 5/13/09
Driller: **RSI Drilling**			Page **2** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter: 8"	
Sampling Method:	Split Spoon	Hole Depth: 30'	▽ = First Water
Casing Type:	Sched. 40 PVC	Well Diameter: 2"	▼ = Static Groundwater
Slot Size:	0.02	Well Depth: 30.5'	
Gravel Pack:	Filter Sand	First Water Depth: N/A	
Elevation		Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Filter Sand			N/A		23–30			SM	Encountered heaving sands to total depth of boring.
					31				**Total Depth of Boring = 30.5 Feet Below Ground Surface (bgs)**
					32–44				

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-1BR**
Logged By:	Alan Buehler	Location: **1629 Webster Street**	Date Drilled: 5/15/09
Driller: **RSI Drilling**		**Alameda, California**	Page **1** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	35'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	34.5'
Gravel Pack:	Filter Sand	First Water Depth:	N/A
Elevation		Northing	Easting

▽ = First Water

▼ = Static Groundwater

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Well Box; Concrete Seal; 2" Sched. 40 PVC Blank Casing	▼				Air-Knife	1–5				Silty sand; trace clay with gravel.
		moist				5			SM	Silty sand; light brown.
		damp				7			SM	Same as above.
		damp				9			SM	Same as above.
		moist	0.2			10			SM	Silty sand with gravel; dark brown.
						12			SM	Silty sand; light brown
		moist	0.2			15			SM	Same as above.
		moist	0.6		13:41 @ 20'	20			SM	Encountered heaving sands to total depth of boring.

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-1BR**
Logged By:	Alan Buehler	Location: **1629 Webster Street** Alameda, California	Date Drilled: 5/15/09
Driller:	**RSI Drilling**		Page **2** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	35'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	34.5'
Gravel Pack:	Filter Sand	First Water Depth:	N/A
Elevation		Northing	Easting

▽ = First Water

▼ = Static Groundwater

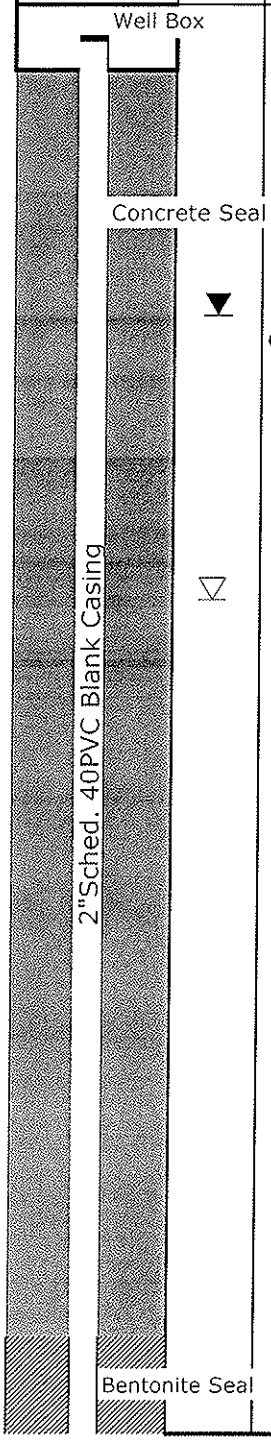
Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23				
						24				
						25				Continuation of heaving sands to total depth of boring.
						26				
	Bentonite Seal					27				
						28				
	Filter Sand					29				
						30				
						31				
						32				
						33				
						34				
						35				**Total Depth of Boring = 35 Feet Below Ground Surface (bgs)**
						36				
						37				
						38				
						39				
						40				
						41				
						42				
						43				
						44				

Delta Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
Logged By:	Alan Buehler	Location:	**1629 Webster Street**
Driller:	**RSI Drilling**		**Alameda, California**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	30'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	29.7'
Gravel Pack:	Filter Sand	First Water Depth:	9.5'
Elevation		Northing	Easting

Well No: **MW-7**
Date Drilled: 5/14/09

▽ = First Water
▼ = Static Groundwater



Depth (feet)	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
1–4				Air-Knife				Silty sand with gravel; presence of non-native fill material (i.e. brick and railroad ties.)
5	damp	14.0					SM	Silty sand with gravel; continued presence of non-native fill described above.
6							SC	Clayey Sand; green to gray; slight odor.
8		1530					SC	Same as above. Increased strong odor.
9	wet							
10		1530		16:45 @ 10'			SC	Same as above.
12							SC	Same as above. Less odor.
15		72.0					SC	Same as above.
17							SC	Same as above. Brown mottling noticed.
20		9.5					SC	Same as above; no odor.

Delta
Consultants

Project No: C102349210
Logged By: Caitlin Morgan
Driller: **RSI Drilling**
Drilling Method: Hollow Stem Auger
Sampling Method: Split Spoon
Casing Type: Sched. 40 PVC
Slot Size: 0.02
Gravel Pack: Filter Sand

Client: **ConocoPhillips**
Location: **1629 Webster Street**
Alameda, California
Hole Diameter: 8"
Hole Depth: 30'
Well Diameter: 2"
Well Depth: 29.7'
First Water Depth: 9.5'

Well No: **MW-7**
Date Drilled: 5/14/09

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting

Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample: Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
Filter Sand					23			
					24			
		Sat.	8.3		25		SC	Clayey sand; green to gray.
					26			
					27			
					28			
					29			
		Sat.	8.0		30		SC	Clayey sand; green to gray.
								Total Depth of Boring = 30 Feet Below Ground Surface (bgs)
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			

Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
Logged By:	Caitlin Morgan	Location:	**1629 Webster Street**
Driller:	**RSI Drilling**		**Alameda, CA**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	30'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	29.5'
Gravel Pack:	Filter Sand	First Water Depth:	18'

Well No: **MW-8**
Date Drilled: 5/14/09
Page **1** of **2**

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
Well Box; Concrete Seal; 2" Sched. 40PVC Blank Casing; Bentonite Seal					Air-Knife	0–4		SW	Well graded sand with clay and gravel, trace roots.
	▼	moist	0.2			5		SW	Well graded sand with clay and gravel, trace roots; dark brown.
		moist	0.2			8		SW-SM	Well graded sand with silt, trace clay. More moist than above.
		moist	0.2			10		SW-SM	Same as above. Slight odor.
		wet	3.1		12:36 @ 15'	15		SC	Clayey sand, trace roots; gray; more moist than above; slight odor.
						17		SC	Same as above. Some brown mottling; less clay.
	▽	sat.				18		SW-SM	Well graded sand with silt, trace clay.
		sat.	0.5			20		SW-SM	Same as above. Less mottling.

Delta
Consultants

Project No: C102349210
Logged By: Caitlin Morgan
Driller: **RSI Drilling**
Drilling Method: Hollow Stem Auger
Sampling Method: Split Spoon
Casing Type: Sched. 40 PVC
Slot Size: 0.02
Gravel Pack: Filter Sand

Client: **ConocoPhillips**
Location: **1629 Webster Street**
Alameda, California
Hole Diameter: 8"
Hole Depth: 30'
Well Diameter: 2"
Well Depth: 29.5'
First Water Depth: 18'

Well No: **MW-8**
Date Drilled: 5/14/09

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Filter Sand		sat.	0.4		25			SW-SM	Same as above.
		sat.	0.4		29			SW-SM	Same as above.
					30				**Total Depth of Boring = 30 Feet Below Ground Surface (bgs)**

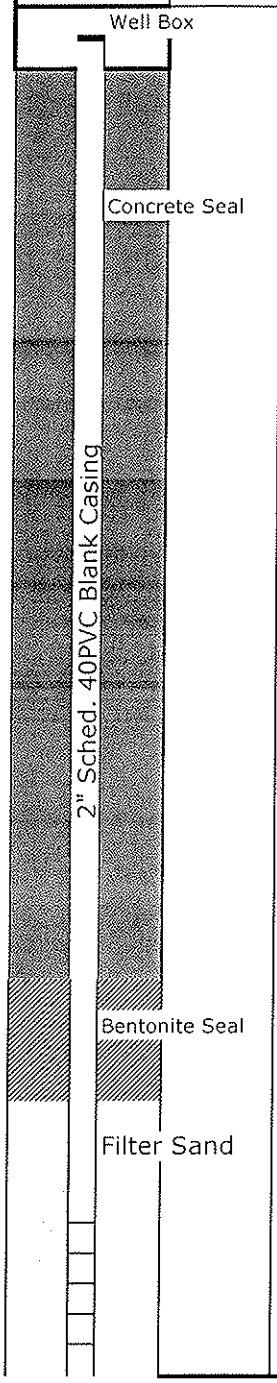
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
Logged By:	Caitlin Morgan	Location:	**1629 Webster Street**
Driller:	**RSI Drilling**		**Alameda, California**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	25'
Casing Type:	Sched. 40PVC	Well Diameter:	8"
Slot Size:	0.02	Well Depth:	24.8'
Gravel Pack:	Filter Sand	First Water Depth:	N/A
Elevation		Northing	Easting

Well No: **MW-9**
Date Drilled: 5/13/09

▽ = First Water
▼ = Static Groundwater



Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
			Air-Knife	1–5			SW-SM	Well graded sand with silt and gravel; brown.
moist	18			5–10			SW-SM	Well graded sand with silt and gravel, trace clay, trace wood chips; brown to light brown.
moist	2105		MW-9 @10' 14:40	10–15			SW-SC	Same as above; more clay. Greenish gray; strong petroleum hydrocarbon odor.
moist	520			15–20			SW-SC	Same as above; brown w/ some greenish gray; less odor from the sample itself however at this point drillers note strong petroleum hydrocarbon odor coming from borehole. PID of 12.0 was obtained from above the open borehole/auger.
sat.	183			20–22			SW-SM	Well graded sand with silt, trace clay; brown to light brown; moist; low odors.

Delta
Consultants

Project No: C102349210
Logged By: Caitlin Morgan
Driller: **RSI Drilling**
Drilling Method: Hollow Stem Auger
Sampling Method: Split Spoon
Casing Sched. 40PVC
Slot Size: 0.02
Gravel Pack: Filter Sand

Client: **ConocoPhillips**
Location: **1629 Webster Street**
Alameda, California
Hole Diameter: 8"
Hole Depth: 25'
Well Diameter: 2"
Well Depth: 24.8'
First Water Depth: N/A

Well No: **MW-9**
Date Drilled: 5/13/09

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting

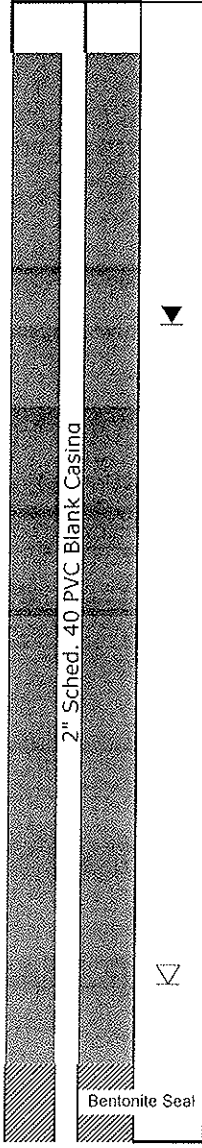
Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
		sat.			23–24			**SW-SM**	Well graded sand with silt, trace clay; brown to light brown; moist; low odors.
					25				**Total Depth of Boring = 25 Feet Below Ground Surface (bgs)**
					26–44				

Delta Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-10**
Logged By:	Caitlin Morgan	Location: **1629 Webster Steet**	Date Drilled: 5/20/09
Driller: **RSI Drilling**		**Alameda, California**	Page **1** of **2**
Drilling Method:	Geoprobe	Hole Diameter: 8"	
Sampling Method:	Direct Push	Hole Depth: 30'	
Casing Type:	Sched. 40 PVC	Well Diameter: 2"	
Slot Size:	0.02	Well Depth: 30'	
Gravel Pack:	Filter Sand	First Water Depth: 19'	
Elevation		Northing	Easting

▽ = First Water

▼ = Static Groundwater



Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
				Air-Knife	1				Silty sand; trace clay and gravel.
					2				
					3				
					4				
	moist	23.0			5				**SC** Clayey sand; brown; fine to medium fine; medium plasticity; firm; slight odor.
▼					6				
					7				
					8				**SP-SC** Poorly graded sand with clay; brown with some gray; medium plasticity; soft; slight odor.
					9				
	moist	57.4		9:23 @ 10'	10				**SP-SM** Poorly graded sand with silt; fine grained; low plasticity; soft; odor more prevalent.
					11				
					12				
					13				
					14				**SP-SC** Same as at 8-feet.
	damp	0			15				**SP-SM** Same as at 10-feet. More moisture; no odor.
					16				
					17				*** Drillers indicate presence of heaving sands.
					18				
					19				
▽					20				
	sat.	3			21				**SM** Silty sand; brown.
					22				

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-10**
Logged By:	Caitlin Morgan	Location: **1629 Webster Street**	Date Drilled: 5/20/2009
Driller: **RSI Drilling**		**Alameda, California**	Page **2** of **2**
Drilling Method:	Geoprobe	Hole Diameter: 8"	
Sampling Method:	Direct Push	Hole Depth: 30"	▽ = First Water
Casing Type:	PVC	Well Diameter: 2"	▼ = Static Groundwater
Slot Size:	0.02	Well Depth: 30'	
Gravel Pack:	Filter Sand	First Water Depth: 19'	
Elevation		Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
		Sat.	2.9		24			SM	Continued heaving sands.
		Sat.	2.3		29			SM	Same as above.
					30				**Total Depth of Boring= 30 Feet Below Ground Surface (bgs)**

31 32 33 34 35 36 37 38 39 40 41 42 43 44

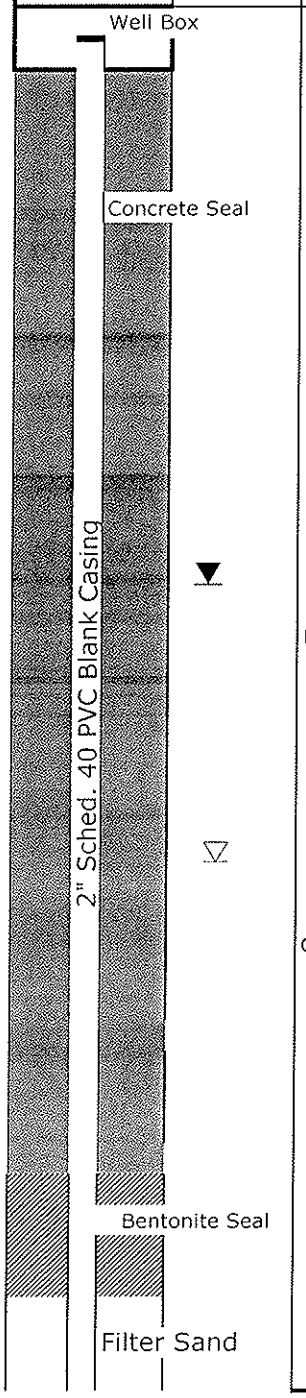
Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
Logged By:	Caitlin Morgan	Location:	**1620 Webster Street**
Driller:	**RSI Drilling**		**Alameda, California**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	28'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	28.0'
Gravel Pack:	Filter Sand	First Water Depth:	14'
Elevation		Northing	Easting

Well No: **MW-11**
Date Drilled: 5/15/09

▽ = First Water

▼ = Static Groundwater



Depth (feet)	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
1–5				Air-Knife			SW-SM	Sandy clay, trace silt; brown to light brown; trace organics, also debris/fill including ceramic kitchenware.
5	dry	0.0					SC	Clayey sand with gravel; light brown, trace roots.
7	moist	0.0					SW-SM	Well graded sand with silt and gravel; brown.
10	moist	18.3		9:15 @ 10'			SC	Clayey sand with silt; gray; slight odor.
15	damp	3.4					SC	Same as above.
17							SC	Same as above; slight petroleum hydrocarbon odor.
20	sat.	1.5					SC	Same as above.

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-11**
Logged By:	Caitlin Morgan	Location: **1629 Webster Street** Alameda, California	Date Drilled: 5/15/09
Driller: **RSI Drilling**			Page **2** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	25'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	28"
Gravel Pack:	Filter Sand	First Water Depth:	14'

▽ = First Water

▼ = Static Groundwater

Elevation	Northing	Easting

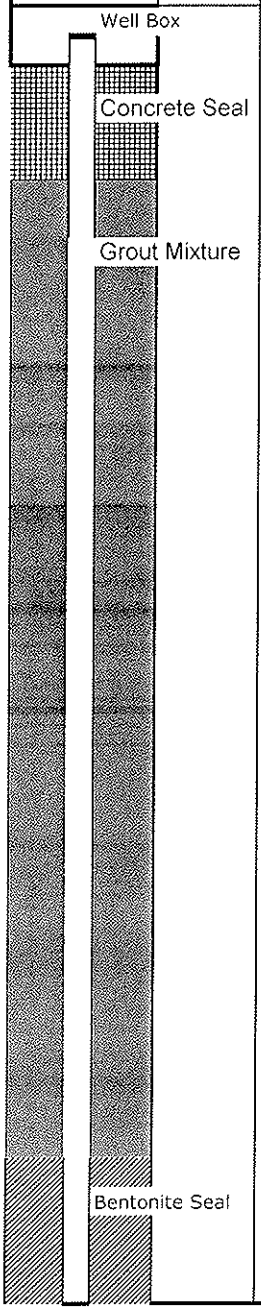
Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
		sat.	1.3		23–28			SC	Sandy clay with silt; gray; slight odor.
					28				**Total Depth of Boring = 28 Feet Below Ground Surface (bgs)**
					29–44				

Delta Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **TSP-1**
Logged By:	Alan Buehler	Location: **1629 Webster Street**	Date Drilled: 5/14/2009
Driller: **RSI Drilling**		**Alameda, California**	Page **1** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	30.5' bgs
Casing Type:	Sched. 40 PVC	Well Diameter:	3/4"
Slot Size:	0.020	Well Depth:	30'
Gravel Pack:	Filter Pack	First Water Depth:	N/A
Elevation		Northing	Easting

▽ = First Water

▼ = Static Groundwater



Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample: Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
					Air-Knife	1–4			
		moist	0.4			5		SW	Well graded sand, trace fine gravel; brown.
		moist				8		SW-SM	Fine to medium sand, with trace silt; light brown.
			0.3			10		SW-SM	Same as above; trace clay.
		wet				12		SM	Silty sand; medium firmness.
			0.5			15		SM	Same as above.
		sat.	3.2	9:10 @ 20'		20		SM	Same as above.
						22			*** Encountered heaving sands to total depth explored.

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	
Logged By:	Alan Buehler	Location: 1629 Webster Street	
Driller: **RSI Drilling**		**Alameda, California**	
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	30.5'
Casing Type:	Sched. 40 PVC	Well Diameter:	3/4"
Slot Size:	0.020	Well Depth:	30'
Gravel Pack:	Filter Sand	First Water Depth:	N/A

Well No: **TSP-1**
Date Drilled: 5/14/09

▽ = First Water

▼ = Static Groundwater

Elevation | Northing | Easting

Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23				
						24				
						25				*** Encountered heaving sands to total depth explored.
						26				
						27				
						28				
						29				
						30				
						31				**Total depth of boring= 30.5' bgs**
						32				
						33				
						34				
						35				
						36				
						37				
						38				
						39				
						40				
						41				
						42				
						43				
						44				

Sugar Sand

Appendix D-
Well Development Field Logs

WELL DEVELOPMENT LOG

Project Number: C1023492 1
Well: MW-1AR
Project Name: Site Inves. / Well Devel.
Development Subcontractor: RSI
Performed/Supervised: (RSI) Victor + Phillipe ; (DELTA) Caitlin Morgan
Development Method: Airlift | Sub. Pump | Surge Block | Bailer | ~~Other~~ PERI.
Development Criteria: 10X CASING VOLUME
Equipment Cleaning Method:
Field Instruments Used: YSI 556 # 0603 Envirotech Rental
Development Water Disposal Method: 55-gallon DOT Drums ≈ 37 gal.
Comments:

DEVELOPMENT DATA

Depth to Water: Start 6.9' End 8.2' Ref. Point Elev. ______ Height Above Ground Surface ______
Total Depth: Start 29.9 End ______

Date	Time	Cumulative Discharge (gallons)	Salinity ~~Turbidity~~	Conductivity	Color	pH	Temperature	Dissolved Other O2
5/21	10:55a	2	0.98	1922 uS/cm 1.72 mS/cm	brown (SANDY)	7.19	19.81°C	404.2% 33.2 mg/L
	11:00a	3	0.77	1531 (1.360)	light brown	7.35	19.18°C	102.2% 8.97
	11:02a	4	0.71	1411 (1.260)	"	7.25	19.32°C	70.2% 6.21
	11:04a	5	0.67	1333 (1.179)	"	7.16	18.97°C	65.4% 5.92
	11:12a	10	0.62	1236 1.119	light brown-clear	7.11	20.25°C	55% 4.60
	11:14a	11	0.64	1096 0.985	gray-clear	6.78	19.68°C	31% 2.94
	11:16a	12	0.53	1060 0.953	"	6.72	19.57°C	38.4% 3.20
	11:18a	13	0.51	1029 0.919	clear	6.70	19.46°C	120.4% 11.25
	11:20a	14	0.52	1043 0.932	"	6.67	19.42°C	33.6% 2.70
	11:22a	15	0.51	1077 0.972	"	6.63	19.27°C	30.5% 2.60
	11:55a	379						

(PERI. PUMP) & BAILED

REMARKS: 11:55 am 10x casing volume achieved.

WELL DEVELOPMENT LOG

Project Number C10234921   Well MW-1BR

Project Name COP   Development Subcontractor RSI

Performed/Supervised (RSI) Victor + Phillipe; (DELTA) Caitlin Morgan

Development Method   Airlift   Sub. Pump   Surge Block   Bailer   Other: peri.

Development Criteria 10x casing volume ≈ 45 gallons

Equipment Cleaning Method

Field Instruments Used Peristaltic Pump / YSI #556 #0603 [illegible]

Development Water Disposal Method 55-gallon DOT Drums

Comments

DEVELOPMENT DATA

Depth to Water: Start 6.4' End ____   Ref. Point Elev. ____   Height Above Ground Surface ____

Total Depth: Start 34.5' End ____

Date	Time	Cumulative Discharge (gallons)	~~Turbidity~~ Salinity	Conductivity	Color	pH	Temperature	Other Dissolved O2
5/21	13:23	.1	0.57	1153 µS/cm 1.068 mS/cm	light gray	7.37	21.25°C	59.0% 5.31 mg/L
	13:26	1	0.58	1168 1.056	"	7.52	19.85°C	56.6% 4.89
	13:28	2	0.57	1144 1.027	"	7.56	19.66°C	43.6% 3.75
	13:30	3	0.30	584 0.579	"	7.55	19.46°C	123.5% 11.4
	13:32	4	0.54	1064 0.953	"	7.63	19.64°C	117.5% 10.74
	13:34	5	0.54	1081 0.957	"	7.68	19.31°C	113.4% 10.46
	14:05	15	0.35	695 0.656	clear	7.58	26.20°C	33.5% 2.79
	14:30	45						

BAILED

PERI-PUMP

REMARKS: 10X CASING VOLUME ACHIEVED @ 14:30 pm (45 gal.)

X [signature]

K:\WellDevelopmentLog.xls   September 2001

WELL DEVELOPMENT LOG

Project Number C1023492I Well MW-7

Project Name Development Development Subcontractor RSI

Performed/Supervised Victor, and Philepe

Development Method Airlift Sub. Pump Surge Block Bailer Other peri.

Development Criteria 10x casing volume ≈ 40 gallons

Equipment Cleaning Method

Field Instruments Used Peristaltic / YSI 556 #0603 [enviroTec rental]

Development Water Disposal Method

Comments

DEVELOPMENT DATA

Depth to Water: Start 4.6 End ____ Ref. Point Elev. ____ Height Above Ground Surface ____

Total Depth: Start 29.7 End ____

Date	Time	Cumulative Discharge (gallons)	~~Turbidity~~	Conductivity	Color	pH	Temperature	DO ~~Other~~
5/20	14:12	0	0.46	928 µS/cm 0.874 mS/cm	brown	7.60	21.5	77.8%
	14:15	.1	0.38	776 0.726	brown	7.63	21.32	58.0/5.1
	14:17	.2	0.12	809 0.859	1	7.38	20.12	
	14:14	.3	0.37	738/.69	11	7.5	19.73	95% 8.4
	14:30	1	.01	19/.016	LB	7.33	19.09	132.3% 13
	14:31	2	0.48	973 µS/cm 972 µS/cm	LB	7.09	19.26	51% 4.6
	14:32	3	0.27	555 0.494	4	7.07	18.7	116% 10.22
	14:39	4	0.55	1101 0.969	4	6.9	16.70	103.5% 8.03
	14:36	5	0.28	584 .504	11	6.9	17.67°	99.4% 9.11
	1455	20	0.50	1044 0.944	4	7.3	20.13°C	65.1% 5.4
	1457	21	0.50	1001 0.887	4	7.3	18.5	100.5% 9.2

REMARKS: @20 G DRY ... DRY = 6' wait 2 min; recharges 21 G DRY ...

WELL DEVELOPMENT LOG

Project Number C10234921 Well MW-8

Project Name Site Invs./Well Devel. Development Subcontractor RSI

Performed/Supervised (RSI) Victor/Phillipe ; (DELTA) Caitlin Morgan

Development Method Airlift Sub. Pump Surge Block Bailer Other Pen

Development Criteria 10x casing volume ≈ 38 gallons

Equipment Cleaning Method

Field Instruments Used YSI 556 # 0603 Enviroteck rental

Development Water Disposal Method 55-gallon DOT drums

Comments Began development 5/20 ≈ 2pg ; complete addl. H2O volume 5/21 to 38 gallons. well had run dry @ 19.5 gallons + pump also stopped working correctly.

DEVELOPMENT DATA

Depth to Water: Start 5.3' End 8.0' Ref. Point Elev. ____ Height Above Ground Surface ____
*(5/20)

Total Depth: Start 29.5' End ____

** Flow 5/20 : pump 1 gal/min recharge 1/2 g/2 min

*(5/21 DEPTH TO H2O = 6.1')

Date	Time	Cumulative Discharge (gallons)	~~Turbidity~~ SALINITY	Conductivity	Color	pH	Temperature	Dissolved Oxygen Other
5/20	4:20	0	0.51	Light Brown	967 µS/cm (.92)	7.5	20.30°C	122% / 11 mg/L
	4:22	1	0.30	"	115 µS/cm (0.54)	7.4	20.24°C	117% / 10 mg/L
	4:24	2	0.01	"	231 (0.021)	7.5	20.75°C	87% / 6.7
	4:26	3	0.40	"	833 (.73)	7.5	20.50°C	68% / 6
		15	0.53	"	1071/1.99	7.5	20.40°C	77.1/6
* at 19.5g dry.		16	0.31	lighter	537/1.49	7.5	21.20°C	102.2/9.16
		17	0.31	clear	621/1.58	7.3	21.50°C	47/4.1
5/21	7:25A	21	0.60	light Brown	1192/1.07	7.1	19.30°C	105/9.5
	7:30A	22	0.31	SANDY	641/0.54	7.1	19.34°C	154.3/13.5
BAILER	7:35A	23	0.30	"	621/0.55	7.0	19.75°C	122/11.12
7:50 dry @ 30 gallons..	**Began pump (peristaltic)							
	7:55A	31	0.52	light brown-clear	1053/0.947	6.76	19.74°C	30.7/2.7
	8:00A	33	0.48	CLEAR	974/0.88	6.88	20.32°C	32.7/2.6

REMARKS: 8:30 10X CASING VOLUME H2O ACHIEVED.

X Caitlin Morgan

WELL DEVELOPMENT LOG

Project Number C102349/0843 Well MW-9

Project Name C0234921C Development ~~Subcontractor~~ by: C. Morgan (Delta)

Performed/Supervised CAITLIN MORGAN / DELTA

Development Method Airlift Sub. Pump Surge Block Bailer Other

Development Criteria 10x casing volume

Equipment Cleaning Method

Field Instruments Used Bailer - no parameters taken.

Development Water Disposal Method

Comments

DEVELOPMENT DATA

Depth to Water: Start 6.14' End 10.55' Ref. Point Elev. Height Above Ground Surface

Total Depth: Start 24.5 End

24.5 - 6.14 = 18.36 x .16 = 2.57 x 10 = TO PURGE = (25.7 gallons)

Date	Time	Cumulative Discharge (gallons)	Turbidity	Conductivity	Color	pH	Temperature	Other
5/28	5:55A	.1			brown sandy			
		17			light brown			
		22			clear			
	820A	(40	gallons total purged)					

REMARKS:

WELL DEVELOPMENT LOG

Project Number C102399 Well MW-10

Project Name Well Development Development Subcontractor RSI

Performed/Supervised RSI / DELTA

Development Method Airlift Sub. Pump Surge Block Bailer Other

Development Criteria 10x casing volume

Equipment Cleaning Method

Field Instruments Used

Development Water Disposal Method

Comments hand surged / 10min. prior to development

DEVELOPMENT DATA

Depth to Water: Start 6.1' End Ref. Point Elev. Height Above Ground Surface

Total Depth: Start 29.5' End

Date	Time	Cumulative Discharge (gallons)	~~Turbidity~~ Salinity	Conductivity	Color	pH	Temperature	Dissolved Oxygen Other
5/26	8:50a	0.1	0.46	933 us/cm 0.637	brown sandy	7.09	19.58°C	70.5% 6.37 mg/L
	8:52a	1.0	0.43	864 0.771	"	7.08	19.45°C	77.1% 6.89 mg/L
	8:54a	2.0	0.46	919 0.813	"	6.99	19.13°C	6.02 6.97
Pumped	8:56a	3.0	0.44	888 0.785	"	6.94	19.08°C	6.05 6.91
	8:58a	4.0	0.43	875 0.772	light brown sandy	6.99	18.71°C	136.0 12.62
	9:00a	5.0	0.41	829 0.735	"	6.95	19.15°C	74.0 6.72
	9:10a	5.0	0.39	788 0.714	no sand	6.73	19.55°C	87.1 7.99
	9:13a	6.0	0.38	765 0.684	clear-gray	6.69	19.46°C	28.7 2.51
	9:14a	6.5	0.37	756 0.677	"	6.64	19.60°C	23.7 2.16
	9:15a	7.0	0.36	742 0.6603	"	6.66	19.49°C	26.5 2.34
	9:20a	20	0.35	722 0.648	CLEAR	6.87	19.61°C	31.6 2.79
		≈40g	0.34	692 0.6033	"	6.78	20.25°C	24.6 2.10

REMARKS:

WELL DEVELOPMENT LOG

Project Number: C102349 21
Well: MW-11
Project Name: Site Inves./Well Devel.
Development Subcontractor: RSI
Performed/Supervised: (RSI) Victor/Phillipe ; (DELTA) Caitlin Morgan
Development Method: Airlift Sub. Pump Surge Block Bailer ~~Other~~ peri
Development Criteria: 10x casing volume ≈ 39 gallons
Equipment Cleaning Method:
Field Instruments Used: YSI 556 # 0603 Enviroteck Rental
Development Water Disposal Method: 55-gallon DOT Drums ≈ 29. gallons.
Comments:

DEVELOPMENT DATA

Depth to Water: Start 9.1' End 6.1' Ref. Point Elev. ____ Height Above Ground Surface ____
Total Depth: Start 27.5' End ____

Date	Time	Cumulative Discharge (gallons)	Salinity ~~Turbidity~~	Conductivity	Color	pH	Temperature	Dissolved Other O2
5/21	9:12a	0	0.38	794 uS/cm 0.72	gray-brown	7.11	20.70°C	124.9% (11.13 Mg/L)
BAILED	9:18a	2	0.67	1345 1.21	"	7.42	19.83°C	53.2% (4.75)
	9:21a	3	0.67	1332 1.18	light brown	7.33	19.05°C	58.9% (5.42)
	9:24a	5	0.55	1327 1.16	"	7.33	19.03°C	57.6% (5.38)
PERI...	9:30a	7	0.28	578 0.528	"	7.20	20.49°C	149.1% (13.34)
	9:35a	10	0.57	1143 1.034	lighter brown	6.91	19.90°C	112.1% (10.19)
	9:38a	12	0.55	1114 1.010	light brown-clear	6.7	19.75°C	21.5% (1.82)
	9:41a	15	0.55	1097 0.98	"	6.7	19.63°C	36.4% (3.2)
	9:50a	20	—	—	CL	—	—	—
	10:20a	29 gall.						

REMARKS: X [signature]
10:20 10X CASING VOLUME ACHIEVED

Appendix E-
Laboratory Analytical Report
(BC Laboratories, Inc.)

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 06/02/2009

Jim Barnard

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

RE:	0843/2349
BC Work Order:	0906426
Invoice ID:	B062758

Enclosed are the results of analyses for samples received by the laboratory on 5/14/2009. 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

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:29

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0906426-01	**COC Number:**	---	**Receive Date:**	05/14/2009 22:00	Metal Analysis: 2-Lab Filtered and Acidified
	Project Number:	0843/2349	**Sampling Date:**	05/14/2009 13:15	Delivery Work Order:
	Sampling Location:	---	**Sample Depth:**	---	Global ID: T0600102263
	Sampling Point:	MW-8	**Sample Matrix:**	Water	Location ID (FieldPoint): MW-8
	Sampled By:	DECR			Matrix: W
					Sample QC Type (SACode): CS
					Cooler ID:
0906426-02	**COC Number:**	---	**Receive Date:**	05/14/2009 22:00	Metal Analysis: 2-Lab Filtered and Acidified
	Project Number:	0843/2349	**Sampling Date:**	05/14/2009 13:30	Delivery Work Order:
	Sampling Location:	---	**Sample Depth:**	---	Global ID: T0600102263
	Sampling Point:	MW-1AR	**Sample Matrix:**	Water	Location ID (FieldPoint): MW-1AR
	Sampled By:	DECR			Matrix: W
					Sample QC Type (SACode): CS
					Cooler ID:
0906426-03	**COC Number:**	---	**Receive Date:**	05/14/2009 22:00	Metal Analysis: 2-Lab Filtered and Acidified
	Project Number:	0843/2349	**Sampling Date:**	05/14/2009 14:15	Delivery Work Order:
	Sampling Location:	---	**Sample Depth:**	---	Global ID: T0600102263
	Sampling Point:	TSP-1	**Sample Matrix:**	Water	Location ID (FieldPoint): TSP-1
	Sampled By:	DECR			Matrix: W
					Sample QC Type (SACode): CS
					Cooler ID:

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:29

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
0906426-04	**COC Number:**	---	**Receive Date:**	05/14/2009 22:00	Metal Analysis: 2-Lab Filtered and Acidified	
	Project Number:	0843/2349	**Sampling Date:**	05/14/2009 13:50	Delivery Work Order:	
	Sampling Location:	---	**Sample Depth:**	---	Global ID: T0600102263	
	Sampling Point:	MW-9	**Sample Matrix:**	Water	Location ID (FieldPoint): MW-9	
	Sampled By:	DECR			Matrix: W	
					Sample QC Type (SACode): CS	
					Cooler ID:	

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:29

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906426-01 | **Client Sample Name:** 0843/2349, MW-8, 5/14/2009 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	**1.4**	**ug/L**	**0.50**		**EPA-8260**	**05/26/09**	**05/27/09 14:05**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367	ND	
Ethylbenzene	**11**	**ug/L**	**0.50**		**EPA-8260**	**05/26/09**	**05/27/09 14:05**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
Methyl t-butyl ether	**4.4**	**ug/L**	**0.50**		**EPA-8260**	**05/26/09**	**05/27/09 14:05**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
Toluene	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367	ND	
Total Xylenes	**6.2**	**ug/L**	**1.0**		**EPA-8260**	**05/26/09**	**05/27/09 14:05**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367	ND	
Ethanol	ND	ug/L	250		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367	ND	
Total Purgeable Petroleum Hydrocarbons	**650**	**ug/L**	**50**		**Luft-GC/MS**	**05/26/09**	**05/27/09 14:05**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367		
4-Bromofluorobenzene (Surrogate)	99.5	%	86 - 115 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 14:05	JCC	MS-V4	1	BSE1367		

Delta Environmental Consultants, Inc.	Project: 0843/2349	**Reported:** 06/02/2009 16:29
11050 White Rock Rd, Suite 110	Project Number: 4511269971	
Rancho Cordova, CA 95670	Project Manager: Jim Barnard	

Water Analysis (General Chemistry)

BCL Sample ID: 0906426-01 | **Client Sample Name:** 0843/2349, MW-8, 5/14/2009 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	**23**	**mg/L**	**1.0**		**EPA-300.0**	**05/22/09**	**05/22/09 17:11**	**VH1**	**IC5**	**1**	**BSE1504**	**ND**	
Iron (II) Species	ND	ug/L	100		SM-3500-Fe[	05/15/09	05/15/09 09:00	HPR	SPEC05	1	BSE1011	ND	
Non-Volatile Organic Carbon	**3.6**	**mg/L**	**0.30**		**EPA-415.1**	**05/15/09**	**05/15/09 19:10**	**CDR**	**TOC2**	**1**	**BSE1075**	**ND**	
Dissolved Oxygen	**7.0**	**mg O/L**	**0.50**		**EPA-360.1**	**05/15/09**	**05/15/09 07:40**	**HPR**	**YSI-57**	**1**	**BSE0982**		**S05**

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:29

Water Analysis (Metals)

BCL Sample ID: 0906426-01 | **Client Sample Name:** 0843/2349, MW-8, 5/14/2009 1:15:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	900	ug/L	1.0		EPA-200.8	05/15/09	05/26/09 13:25	PRA	PE-EL1	1	BSE1498	ND	
Total Recoverable Manganese	1200	ug/L	1.0		EPA-200.8	05/19/09	05/19/09 20:48	PRA	PE-EL1	1	BSE1119	ND	

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:29

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906426-02 | **Client Sample Name:** 0843/2349, MW-1AR, 5/14/2009 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
Methyl t-butyl ether	**2.4**	**ug/L**	**0.50**		**EPA-8260**	**05/26/09**	**05/26/09 21:15**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
Toluene	ND	ug/L	0.50		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
Ethanol	ND	ug/L	250		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367	ND	
1,2-Dichloroethane-d4 (Surrogate)	110	%	76 - 114 (LCL - UCL)		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367		
Toluene-d8 (Surrogate)	97.7	%	88 - 110 (LCL - UCL)		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367		
4-Bromofluorobenzene (Surrogate)	96.5	%	86 - 115 (LCL - UCL)		EPA-8260	05/26/09	05/26/09 21:15	JCC	MS-V4	1	BSE1367		

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:29

Water Analysis (General Chemistry)

BCL Sample ID: 0906426-02 | **Client Sample Name:** 0843/2349, MW-1AR, 5/14/2009 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	33	mg/L	1.0		EPA-300.0	05/22/09	05/22/09 17:26	VH1	IC5	1	BSE1504	ND	
Iron (II) Species	330	ug/L	100		SM-3500-FeD	05/15/09	05/15/09 09:00	HPR	SPEC05	1	BSE1011	ND	
Non-Volatile Organic Carbon	2.1	mg/L	0.30		EPA-415.1	05/15/09	05/15/09 19:28	CDR	TOC2	1	BSE1075	ND	
Dissolved Oxygen	9.8	mg O/L	0.50		EPA-360.1	05/15/09	05/15/09 07:40	HPR	YSI-57	1	BSE0982		S05

Delta Environmental Consultants, Inc.	Project: 0843/2349	**Reported:** 06/02/2009 16:29
11050 White Rock Rd, Suite 110	Project Number: 4511269971	
Rancho Cordova, CA 95670	Project Manager: Jim Barnard	

Water Analysis (Metals)

BCL Sample ID: 0906426-02 | **Client Sample Name:** 0843/2349, MW-1AR, 5/14/2009 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	59	ug/L	1.0		EPA-200.8	05/15/09	05/26/09 13:40	PRA	PE-EL1	1	BSE1498	ND	
Total Recoverable Manganese	67	ug/L	1.0		EPA-200.8	05/19/09	05/19/09 20:51	PRA	PE-EL1	1	BSE1119	ND	

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:29

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906426-03 | **Client Sample Name:** 0843/2349, TSP-1, 5/14/2009 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
Methyl t-butyl ether	**7.1**	**ug/L**	**0.50**		**EPA-8260**	**05/26/09**	**05/27/09 00:32**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
Toluene	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
Ethanol	ND	ug/L	250		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367	ND	
1,2-Dichloroethane-d4 (Surrogate)	110	%	76 - 114 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367		
Toluene-d8 (Surrogate)	98.9	%	88 - 110 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367		
4-Bromofluorobenzene (Surrogate)	96.1	%	86 - 115 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 00:32	JCC	MS-V4	1	BSE1367		

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Project Manager: Jim Barnard

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Water Analysis (General Chemistry)

BCL Sample ID: 0906426-03 | **Client Sample Name:** 0843/2349, TSP-1, 5/14/2009 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	46	mg/L	1.0		EPA-300.0	05/22/09	05/22/09 17:40	VH1	IC5	1	BSE1504	ND	
Iron (II) Species	170	ug/L	100		SM-3500-FeE	05/15/09	05/15/09 09:00	HPR	SPEC05	1	BSE1011	ND	
Non-Volatile Organic Carbon	4.2	mg/L	0.30		EPA-415.1	05/15/09	05/15/09 19:46	CDR	TOC2	1	BSE1075	ND	
Dissolved Oxygen	7.6	mg O/L	0.50		EPA-360.1	05/15/09	05/15/09 07:40	HPR	YSI-57	1	BSE0982		S05

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Project Manager: Jim Barnard

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Water Analysis (Metals)

BCL Sample ID: 0906426-03 | **Client Sample Name:** 0843/2349, TSP-1, 5/14/2009 2:15:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	24	ug/L	1.0		EPA-200.8	05/15/09	05/26/09 13:43	PRA	PE-EL1	1	BSE1498	ND	
Total Recoverable Manganese	330	ug/L	1.0		EPA-200.8	05/19/09	05/19/09 20:54	PRA	PE-EL1	1	BSE1119	ND	

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906426-04 | **Client Sample Name:** 0843/2349, MW-9, 5/14/2009 1:50:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367	ND	
Ethylbenzene	**74**	**ug/L**	**0.50**		**EPA-8260**	**05/26/09**	**05/27/09 00:56**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
Methyl t-butyl ether	**40**	**ug/L**	**0.50**		**EPA-8260**	**05/26/09**	**05/27/09 00:56**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
Toluene	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367	ND	
Total Xylenes	**250**	**ug/L**	**10**		**EPA-8260**	**05/26/09**	**05/27/09 09:32**	**JCC**	**MS-V4**	**10**	**BSE1367**	**ND**	**A01**
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367	ND	
Ethanol	ND	ug/L	250		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367	ND	
Total Purgeable Petroleum Hydrocarbons	**1900**	**ug/L**	**50**		**Luft-GC/MS**	**05/26/09**	**05/27/09 00:56**	**JCC**	**MS-V4**	**1**	**BSE1367**	**ND**	
1,2-Dichloroethane-d4 (Surrogate)	112	%	76 - 114 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367		
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 09:32	JCC	MS-V4	10	BSE1367		
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367		
Toluene-d8 (Surrogate)	99.4	%	88 - 110 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 09:32	JCC	MS-V4	10	BSE1367		
4-Bromofluorobenzene (Surrogate)	95.7	%	86 - 115 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 09:32	JCC	MS-V4	10	BSE1367		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 00:56	JCC	MS-V4	1	BSE1367		

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Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:29

Water Analysis (General Chemistry)

BCL Sample ID: 0906426-04 | **Client Sample Name:** 0843/2349, MW-9, 5/14/2009 1:50:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	38	mg/L	1.0		EPA-300.0	05/22/09	05/22/09 17:55	VH1	IC5	1	BSE1504	ND	
Iron (II) Species	230	ug/L	100		SM-3500-FeD	05/15/09	05/15/09 09:00	HPR	SPEC05	1	BSE1011	ND	
Non-Volatile Organic Carbon	2.2	mg/L	0.30		EPA-415.1	05/15/09	05/15/09 20:05	CDR	TOC2	1	BSE1075	ND	
Dissolved Oxygen	3.5	mg O/L	0.50		EPA-360.1	05/15/09	05/15/09 07:40	HPR	YSI-57	1	BSE0982		S05

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Reported: 06/02/2009 16:29

Water Analysis (Metals)

BCL Sample ID: 0906426-04 | **Client Sample Name:** 0843/2349, MW-9, 5/14/2009 1:50:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	180	ug/L	1.0		EPA-200.8	05/15/09	05/26/09 13:46	PRA	PE-EL1	1	BSE1498	ND	
Total Recoverable Manganese	240	ug/L	1.0		EPA-200.8	05/19/09	05/19/09 20:57	PRA	PE-EL1	1	BSE1119	ND	

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BSE1367	Matrix Spike	0906426-02	0	21.620	25.000	ug/L		86.5		70 - 130	
		Matrix Spike Duplicate	0906426-02	0	21.660	25.000	ug/L	0.1	86.6	20	70 - 130	
Toluene	BSE1367	Matrix Spike	0906426-02	0	22.690	25.000	ug/L		90.8		70 - 130	
		Matrix Spike Duplicate	0906426-02	0	22.420	25.000	ug/L	1.2	89.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSE1367	Matrix Spike	0906426-02	ND	10.970	10.000	ug/L		110		76 - 114	
		Matrix Spike Duplicate	0906426-02	ND	11.000	10.000	ug/L		110		76 - 114	
Toluene-d8 (Surrogate)	BSE1367	Matrix Spike	0906426-02	ND	9.8600	10.000	ug/L		98.6		88 - 110	
		Matrix Spike Duplicate	0906426-02	ND	9.8500	10.000	ug/L		98.5		88 - 110	
4-Bromofluorobenzene (Surrogate)	BSE1367	Matrix Spike	0906426-02	ND	10.290	10.000	ug/L		103		86 - 115	
		Matrix Spike Duplicate	0906426-02	ND	10.200	10.000	ug/L		102		86 - 115	

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Dissolved Oxygen	BSE0982	Duplicate	0906423-01	3.6000	3.6000		mg O/L	0		10		
Iron (II) Species	BSE1011	Duplicate	0906426-01	92.857	ND		ug/L			10		
Non-Volatile Organic Carbon	BSE1075	Duplicate	0906423-04	0.58300	0.50500		mg/L	14.3		10		A02
		Matrix Spike	0906423-04	0.58300	5.7015	5.0251	mg/L		102		80 - 120	
		Matrix Spike Duplicate	0906423-04	0.58300	5.6814	5.0251	mg/L	1.0	101	10	80 - 120	
Sulfate	BSE1504	Duplicate	0906269-05	80.852	81.140		mg/L	0.4		10		
		Matrix Spike	0906269-05	80.852	190.55	101.01	mg/L		109		80 - 120	
		Matrix Spike Duplicate	0906269-05	80.852	190.64	101.01	mg/L	0	109	10	80 - 120	

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Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Total Recoverable Manganese	BSE1119	Duplicate	0906480-01	41.535	42.096		ug/L	1.3		20		
		Matrix Spike	0906480-01	41.535	155.43	100.00	ug/L		114		70 - 130	
		Matrix Spike Duplicate	0906480-01	41.535	145.67	100.00	ug/L	9.2	104	20	70 - 130	
Manganese	BSE1498	Duplicate	0906426-01	904.63	910.95		ug/L	0.7		20		
		Matrix Spike	0906426-01	904.63	1006.9	102.04	ug/L		100		70 - 130	
		Matrix Spike Duplicate	0906426-01	904.63	999.21	102.04	ug/L	7.6	92.7	20	70 - 130	

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BSE1367	BSE1367-BS1	LCS	21.560	25.000	0.50	ug/L	86.2		70 - 130		
Toluene	BSE1367	BSE1367-BS1	LCS	22.130	25.000	0.50	ug/L	88.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSE1367	BSE1367-BS1	LCS	10.400	10.000		ug/L	104		76 - 114		
Toluene-d8 (Surrogate)	BSE1367	BSE1367-BS1	LCS	9.9200	10.000		ug/L	99.2		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSE1367	BSE1367-BS1	LCS	10.360	10.000		ug/L	104		86 - 115		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Iron (II) Species	BSE1011	BSE1011-BS1	LCS	1982.6	2000.0	100	ug/L	99.1		90 - 110		
Non-Volatile Organic Carbon	BSE1075	BSE1075-BS1	LCS	5.0830	5.0000	0.30	mg/L	102		85 - 115		
Sulfate	BSE1504	BSE1504-BS1	LCS	92.742	100.00	1.0	mg/L	92.7		90 - 110		

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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Total Recoverable Manganese	BSE1119	BSE1119-BS2	LCS	103.35	100.00	1.0	ug/L	103		85 - 115		
Manganese	BSE1498	BSE1498-BS1	LCS	102.55	100.00	1.0	ug/L	103		85 - 115		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BSE1367	BSE1367-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSE1367	BSE1367-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSE1367	BSE1367-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSE1367	BSE1367-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSE1367	BSE1367-BLK1	ND	ug/L	0.50		
Toluene	BSE1367	BSE1367-BLK1	ND	ug/L	0.50		
Total Xylenes	BSE1367	BSE1367-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSE1367	BSE1367-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BSE1367	BSE1367-BLK1	ND	ug/L	10		
Diisopropyl ether	BSE1367	BSE1367-BLK1	ND	ug/L	0.50		
Ethanol	BSE1367	BSE1367-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BSE1367	BSE1367-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BSE1367	BSE1367-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BSE1367	BSE1367-BLK1	106	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSE1367	BSE1367-BLK1	99.3	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSE1367	BSE1367-BLK1	96.5	%	86 - 115 (LCL - UCL)		

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Iron (II) Species	BSE1011	BSE1011-BLK1	ND	ug/L	100		
Non-Volatile Organic Carbon	BSE1075	BSE1075-BLK1	ND	mg/L	0.30		
Sulfate	BSE1504	BSE1504-BLK1	ND	mg/L	1.0		

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Reported: 06/02/2009 16:29

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Total Recoverable Manganese	BSE1119	BSE1119-BLK2	ND	ug/L	1.0		
Manganese	BSE1498	BSE1498-BLK1	ND	ug/L	1.0		

Delta Environmental Consultants, Inc.	Project: 0843/2349	**Reported:** 06/02/2009 16:29
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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.
A02	The difference between duplicate readings is less than the PQL.
S05	The sample holding time was exceeded.

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 SAP Project Number: C102349
ConocoPhillips Requisition / Line Number:

DATE: 5/14/09
PAGE: 1 of 1

SAMPLING COMPANY: Delta Consultants	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: (Former) 76 Station 0843/2349	GLOBAL ID NO.: T0600102263
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 1629 Webster Street, Alameda, California	CONOCOPHILLIPS SITE MANAGER: Terry Grayson
PROJECT CONTACT (Hardcopy or PDF Report to): James Barnard		EDF DELIVERABLE TO (RP or Designee): James Barnard (Delta)	PHONE NO.: 916-638-8385
TELEPHONE: (916) 503-1279 FAX: (916) 638-8385	E-MAIL: JBarnard@deltaenv.com		E-MAIL: JBarnard@deltaenv.com
SAMPLER NAME(S) (Print): Caitlin Morgan	CONSULTANT PROJECT NUMBER: C102349		LAB USE ONLY: 09-004206

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 ☑

* FOR TOC: Please split Ambers for sampling - TOC AND ADD PRESERVATIVE, ASAP.

(9 containers each)

REQUESTED ANALYSES

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8260B - TPH-G/ BTEX/ 8 Oxygenates (including ethanol)	EPA Method 300.0- Sulfate	EPA Method 3500 FE+D- Ferrous Iron	EPA Method 200.8- Total Manganese	EPA Method 415.1- Total Carbon * TOC	EPA Method 200.8- Dissolved Manganese	Dissolved Oxygen	Oxidation Reduction Potential
-1	MW-8	5/14	13:15	H_2O	9	X	X	X	X	X	X	X	X
-2	MW-1AR	5/14	13:30	H_2O	9	X	X	X	X	X	X	X	X
-3	TSP-4	5/14	14:15	H_2O	9	X	X	X	X	X	X	X	X
-4	MW-9	5/14	12:50	H_2O	9	X	X	X	X	X	X	X	X

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

CHK BY

DISTRIBUTION

SUB-CONTRACT

SHORT HOLDING TIME

Cr^{+6} NO_2 NO_3 OP SS

50 BOD NH3 S C O T

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Ross Dickey BC LABS	5/14/09	1455
Ross Dickey 5/14/09	R. Reynoso		1805
R. Reynoso 5-14-09 2120		5/14/09	2200

Thank you!!! - Delta -

8/19/03 Revision

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

Submission #: 09-004210

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: .95 Container: PtPe Thermometer ID: TH080

Temperature: A 2.6 °C / C 2.9 °C

2120 Date/Time 05-14-09

Analyst Init ALM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	C	C	C	C						
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	B	B	B	B						
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	A (5)	A (5)	A (5)	A 5	( )	( )	( )	( )	( )	( )
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	D	D	D	D						
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	E	E	E	E						
ENCORE										

Comments:

Sample Numbering Completed By: JDW Date/Time: 5/15/09 0015

A = Actual / C = Corrected

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

BC LABORATORIES, INC.

May 26, 2009

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

Attached are the results from Zalco Laboratories, Inc.

BCL Sample ID	Client Sample ID	Sample Date/Time
0906426-01	MW-8	05/14/09 @ 13:15
0906426-02	MW-1AR	05/14/09 @ 13:30
0906426-03	TSP-1	05/14/09 @ 14:15
0906426-04	MW-9	05/14/09 @ 13:50

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Thursday, May 21, 2009

Molly Meyers
BC Laboratories Inc
4100 Atlas Court
Bakersfield, CA 93308

TEL: (661) 327-4911
FAX (661) 327-1918

RE: 0906426

Order No.: 0905222

Dear Molly Meyers:

Zalco Laboratories, Inc. received 4 sample(s) on 5/18/2009 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Authorized Signature
Zalco Laboratories, Inc.
(661) 395-0539

ZALCO LABORATORIES, INC.
Analytical and Consulting Services
4309 Armour Avenue
Bakersfield, California 93308
(661) 395-0539
FAX (661) 395-3069

CLIENT:	BC Laboratories Inc	**Report Date:**	5/21/2009
Lab Order:	0905222	**Lab ID:**	0905222-001A
Project:	0906426	**Collection Date:**	5/14/2009 1:15:00 PM
Client Sample ID:	0906426-01	**Matrix:**	AQUEOUS
Report Comment:			

Analyses	Method	Result	Units	Date Analyzed	Qual.
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	167	mv	5/19/2009	

Qualifiers / Abbreviations:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
H - Hold Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
DLR: Detection Limit for Reporting
NSS - Non-Sufficient Sample Amount

ZALCO LABORATORIES, INC.
Analytical and Consulting Services
4309 Armour Avenue
Bakersfield, California 93308
(661) 395-0539
FAX (661) 395-3069

CLIENT:	BC Laboratories Inc	**Report Date:**	5/21/2009
Lab Order:	0905222	**Lab ID:**	0905222-002A
Project:	0906426	**Collection Date:**	5/14/2009 1:30:00 PM
Client Sample ID:	0906426-02	**Matrix:**	AQUEOUS
Report Comment:			

Analyses	Method	Result	Units	Date Analyzed	Qual.
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	220	mv	5/19/2009	

Qualifiers / Abbreviations:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	DLR: Detection Limit for Reporting
	H - Hold Time Exceeded	NSS - Non-Sufficient Sample Amount

ZALCO LABORATORIES, INC.
Analytical and Consulting Services
4309 Armour Avenue
Bakersfield, California 93308
(661) 395-0539
FAX (661) 395-3069

CLIENT:	BC Laboratories Inc	**Report Date:**	5/21/2009
Lab Order:	0905222	**Lab ID:**	0905222-003A
Project:	0906426	**Collection Date:**	5/14/2009 2:15:00 PM
Client Sample ID:	0906246-03	**Matrix:**	AQUEOUS
Report Comment:			

Analyses	Method	Result	Units	Date Analyzed	Qual.
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	231	mv	5/19/2009	

Qualifiers / Abbreviations:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	DLR: Detection Limit for Reporting
	H - Hold Time Exceeded	NSS - Non-Sufficient Sample Amount

ZALCO LABORATORIES, INC.
Analytical and Consulting Services
4309 Armour Avenue
Bakersfield, California 93308
(661) 395-0539
FAX (661) 395-3069

CLIENT:	BC Laboratories Inc	**Report Date:**	5/21/2009
Lab Order:	0905222	**Lab ID:**	0905222-004A
Project:	0906426	**Collection Date:**	5/14/2009 1:50:00 PM
Client Sample ID:	0906426-04	**Matrix:**	AQUEOUS
Report Comment:			

Analyses	Method	Result	Units	Date Analyzed	Qual.
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	228	mv	5/19/2009	

Qualifiers / Abbreviations:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
H - Hold Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
DLR: Detection Limit for Reporting
NSS - Non-Sufficient Sample Amount

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 06/02/2009

Jim Barnard

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

RE: 0843/2349
BC Work Order: 0906724
Invoice ID: B062760

Enclosed are the results of analyses for samples received by the laboratory on 5/20/2009. 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

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:42

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0906724-01	**COC Number:**	---	**Receive Date:**	05/20/2009 21:50	Delivery Work Order:
	Project Number:	0843/2349	**Sampling Date:**	05/13/2009 14:40	Global ID: T0600102263
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-9
	Sampling Point:	MW-9@10'	**Sample Matrix:**	Solids	Matrix: SO
	Sampled By:	DECR			Sample QC Type (SACode): CS
					Cooler ID:
0906724-02	**COC Number:**	---	**Receive Date:**	05/20/2009 21:50	Delivery Work Order:
	Project Number:	0843/2349	**Sampling Date:**	05/14/2009 16:45	Global ID: T0600102263
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-7
	Sampling Point:	MW-7@10'	**Sample Matrix:**	Solids	Matrix: SO
	Sampled By:	DECR			Sample QC Type (SACode): CS
					Cooler ID:
0906724-03	**COC Number:**	---	**Receive Date:**	05/20/2009 21:50	Delivery Work Order:
	Project Number:	0843/2349	**Sampling Date:**	05/15/2009 13:41	Global ID: T0600102263
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-1BR
	Sampling Point:	MW-1BR@20'	**Sample Matrix:**	Solids	Matrix: SO
	Sampled By:	DECR			Sample QC Type (SACode): CS
					Cooler ID:
0906724-04	**COC Number:**	---	**Receive Date:**	05/20/2009 21:50	Delivery Work Order:
	Project Number:	0843/2349	**Sampling Date:**	05/13/2009 11:23	Global ID: T0600102263
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-1AR
	Sampling Point:	MW-1AR@20'	**Sample Matrix:**	Solids	Matrix: SO
	Sampled By:	DECR			Sample QC Type (SACode): CS
					Cooler ID:

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:42

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0906724-05	**COC Number:**	---	**Receive Date:**	05/20/2009 21:50	Delivery Work Order:
	Project Number:	0843/2349	**Sampling Date:**	05/15/2009 09:15	Global ID: T0600102263
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-11
	Sampling Point:	MW-11@10'	**Sample Matrix:**	Solids	Matrix: SO
	Sampled By:	DECR			Sample QC Type (SACode): CS
					Cooler ID:
0906724-06	**COC Number:**	---	**Receive Date:**	05/20/2009 21:50	Delivery Work Order:
	Project Number:	0843/2349	**Sampling Date:**	05/14/2009 09:10	Global ID: T0600102263
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): TSP-1
	Sampling Point:	TSP-1@20'	**Sample Matrix:**	Solids	Matrix: SO
	Sampled By:	DECR			Sample QC Type (SACode): CS
					Cooler ID:
0906724-07	**COC Number:**	---	**Receive Date:**	05/20/2009 21:50	Delivery Work Order:
	Project Number:	0843/2349	**Sampling Date:**	05/14/2009 12:36	Global ID: T0600102263
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-8
	Sampling Point:	MW-8@15'	**Sample Matrix:**	Solids	Matrix: SO
	Sampled By:	DECR			Sample QC Type (SACode): CS
					Cooler ID:
0906724-08	**COC Number:**	---	**Receive Date:**	05/20/2009 21:50	Delivery Work Order:
	Project Number:	0843/2349	**Sampling Date:**	05/20/2009 09:23	Global ID: T0600102263
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-10
	Sampling Point:	MW-10@10'	**Sample Matrix:**	Solids	Matrix: SO
	Sampled By:	DECR			Sample QC Type (SACode): CS
					Cooler ID:

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906724-01 | **Client Sample Name:** 0843/2349, MW-9@10', 5/13/2009 2:40:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.12		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
1,2-Dibromoethane	ND	mg/kg	0.12		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
1,2-Dichloroethane	ND	mg/kg	0.12		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
Ethylbenzene	**2.0**	**mg/kg**	**0.12**		**EPA-8260**	**05/26/09**	**05/27/09 15:03**	**JSK**	**MS-V3**	**25**	**BSE1577**	**ND**	**A01**
Methyl t-butyl ether	ND	mg/kg	0.12		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
Toluene	ND	mg/kg	0.12		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
Total Xylenes	**9.5**	**mg/kg**	**0.25**		**EPA-8260**	**05/26/09**	**05/27/09 15:03**	**JSK**	**MS-V3**	**25**	**BSE1577**	**ND**	**A01**
t-Amyl Methyl ether	ND	mg/kg	0.12		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
t-Butyl alcohol	ND	mg/kg	1.2		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
Diisopropyl ether	ND	mg/kg	0.12		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
Ethanol	ND	mg/kg	25		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
Ethyl t-butyl ether	ND	mg/kg	0.12		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577	ND	A01
Total Purgeable Petroleum Hydrocarbons	**46**	**mg/kg**	**5.0**		**Luft-GC/MS**	**05/26/09**	**05/27/09 15:03**	**JSK**	**MS-V3**	**25**	**BSE1577**	**ND**	**A01**
1,2-Dichloroethane-d4 (Surrogate)	99.3	%	70 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577		
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577		
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 15:03	JSK	MS-V3	25	BSE1577		

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:42

Chemical Analysis

BCL Sample ID: 0906724-01 | **Client Sample Name:** 0843/2349, MW-9@10', 5/13/2009 2:40:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	ND	mg/kg	10		EPA-300.0	05/28/09	05/28/09 14:05	VH1	IC2	1	BSE1707	ND	

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Total Concentrations (TTLC)

BCL Sample ID: 0906724-01 | **Client Sample Name:** 0843/2349, MW-9@10', 5/13/2009 2:40:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	190	mg/kg	0.50		EPA-6010B	05/28/09	05/29/09 10:46	PPS	PE-OP1	0.971	BSE1710	ND	

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906724-02 | **Client Sample Name:** 0843/2349, MW-7@10', 5/14/2009 4:45:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.50		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
1,2-Dibromoethane	ND	mg/kg	0.50		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
1,2-Dichloroethane	ND	mg/kg	0.50		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
Ethylbenzene	**38**	**mg/kg**	**0.50**		**EPA-8260**	**05/27/09**	**05/27/09 21:27**	**JSK**	**MS-V3**	**100**	**BSE1577**	**ND**	**A01**
Methyl t-butyl ether	ND	mg/kg	0.50		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
Toluene	ND	mg/kg	0.50		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
Total Xylenes	**770**	**mg/kg**	**10**		**EPA-8260**	**05/27/09**	**05/27/09 23:12**	**JSK**	**MS-V3**	**1000**	**BSE1577**	**ND**	**A01**
t-Amyl Methyl ether	ND	mg/kg	0.50		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
t-Butyl alcohol	ND	mg/kg	5.0		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
Diisopropyl ether	ND	mg/kg	0.50		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
Ethanol	ND	mg/kg	100		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
Ethyl t-butyl ether	ND	mg/kg	0.50		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577	ND	A01
Total Purgeable Petroleum Hydrocarbons	**4100**	**mg/kg**	**200**		**Luft-GC/MS**	**05/27/09**	**05/27/09 23:12**	**JSK**	**MS-V3**	**1000**	**BSE1577**	**ND**	**A01,S01**
1,2-Dichloroethane-d4 (Surrogate)	93.9	%	70 - 121 (LCL - UCL)		EPA-8260	05/27/09	05/27/09 23:12	JSK	MS-V3	1000	BSE1577		
1,2-Dichloroethane-d4 (Surrogate)	98.2	%	70 - 121 (LCL - UCL)		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577		
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577		
Toluene-d8 (Surrogate)	99.6	%	81 - 117 (LCL - UCL)		EPA-8260	05/27/09	05/27/09 23:12	JSK	MS-V3	1000	BSE1577		
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)		EPA-8260	05/27/09	05/27/09 23:12	JSK	MS-V3	1000	BSE1577		
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260	05/27/09	05/27/09 21:27	JSK	MS-V3	100	BSE1577		

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Chemical Analysis

BCL Sample ID: 0906724-02 | **Client Sample Name:** 0843/2349, MW-7@10', 5/14/2009 4:45:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	16	mg/kg	10		EPA-300.0	05/28/09	05/28/09 15:00	VH1	IC2	1	BSE1707	ND	

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Total Concentrations (TTLC)

BCL Sample ID: 0906724-02 | **Client Sample Name:** 0843/2349, MW-7@10', 5/14/2009 4:45:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	110	mg/kg	0.50		EPA-6010B	05/28/09	05/29/09 09:59	PPS	PE-OP1	0.962	BSE1710	ND	

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Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906724-03 | **Client Sample Name:** 0843/2349, MW-1BR@20', 5/15/2009 1:41:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
Methyl t-butyl ether	**0.15**	**mg/kg**	**0.0050**		**EPA-8260**	**05/26/09**	**05/27/09 16:48**	**JSK**	**MS-V3**	**1**	**BSE1577**	**ND**	
Toluene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20		Luft-GC/MS	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577	ND	
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577		
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577		
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 16:48	JSK	MS-V3	1	BSE1577		

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Chemical Analysis

BCL Sample ID: 0906724-03 | **Client Sample Name:** 0843/2349, MW-1BR@20', 5/15/2009 1:41:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	15	mg/kg	10		EPA-300.0	05/28/09	05/28/09 15:13	VH1	IC2	1	BSE1707	ND	

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Total Concentrations (TTLC)

BCL Sample ID: 0906724-03 | **Client Sample Name:** 0843/2349, MW-1BR@20', 5/15/2009 1:41:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	150	mg/kg	0.50		EPA-6010B	05/28/09	05/29/09 10:01	PPS	PE-OP1	0.980	BSE1710	ND	

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Project Manager: Jim Barnard

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906724-04 | **Client Sample Name:** 0843/2349, MW-1AR@20', 5/13/2009 11:23:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
Methyl t-butyl ether	**0.25**	**mg/kg**	**0.0050**		**EPA-8260**	**05/26/09**	**05/27/09 14:36**	**JSK**	**MS-V3**	**1**	**BSE1577**	**ND**	
Toluene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577	ND	
Total Purgeable Petroleum Hydrocarbons	**0.26**	**mg/kg**	**0.20**		**Luft-GC/MS**	**05/26/09**	**05/27/09 14:36**	**JSK**	**MS-V3**	**1**	**BSE1577**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	97.0	%	70 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577		
Toluene-d8 (Surrogate)	99.6	%	81 - 117 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577		
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 14:36	JSK	MS-V3	1	BSE1577		

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Chemical Analysis

BCL Sample ID: 0906724-04 | **Client Sample Name:** 0843/2349, MW-1AR@20', 5/13/2009 11:23:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	15	mg/kg	10		EPA-300.0	05/28/09	05/28/09 15:27	VH1	IC2	1	BSE1707	ND	

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Total Concentrations (TTLC)

BCL Sample ID: 0906724-04 | **Client Sample Name:** 0843/2349, MW-1AR@20', 5/13/2009 11:23:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	160	mg/kg	0.50		EPA-6010B	05/28/09	05/29/09 10:02	PPS	PE-OP1	0.990	BSE1710	ND	

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906724-05 | **Client Sample Name:** 0843/2349, MW-11@10', 5/15/2009 9:15:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577	ND	
Total Purgeable Petroleum Hydrocarbons	**0.40**	**mg/kg**	**0.40**		**Luft-GC/MS**	**05/27/09**	**05/28/09 02:42**	**JSK**	**MS-V3**	**2**	**BSE1577**	**ND**	**A01**
1,2-Dichloroethane-d4 (Surrogate)	94.5	%	70 - 121 (LCL - UCL)		EPA-8260	05/27/09	05/28/09 02:42	JSK	MS-V3	2	BSE1577		
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577		
Toluene-d8 (Surrogate)	96.7	%	81 - 117 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577		
Toluene-d8 (Surrogate)	97.9	%	81 - 117 (LCL - UCL)		EPA-8260	05/27/09	05/28/09 02:42	JSK	MS-V3	2	BSE1577		
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 17:14	JSK	MS-V3	1	BSE1577		
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260	05/27/09	05/28/09 02:42	JSK	MS-V3	2	BSE1577		

Delta Environmental Consultants, Inc.	Project: 0843/2349	**Reported:** 06/02/2009 16:42
11050 White Rock Rd, Suite 110	Project Number: 4511269971	
Rancho Cordova, CA 95670	Project Manager: Jim Barnard	

Chemical Analysis

BCL Sample ID: 0906724-05 | **Client Sample Name:** 0843/2349, MW-11@10', 5/15/2009 9:15:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	51	mg/kg	10		EPA-300.0	05/28/09	05/28/09 15:40	VH1	IC2	1	BSE1707	ND	

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Rancho Cordova, CA 95670	Project Manager: Jim Barnard	

Total Concentrations (TTLC)

BCL Sample ID: 0906724-05 | **Client Sample Name:** 0843/2349, MW-11@10', 5/15/2009 9:15:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	190	mg/kg	0.50		EPA-6010B	05/28/09	05/29/09 10:04	PPS	PE-OP1	0.952	BSE1710	ND	

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906724-06 | **Client Sample Name:** 0843/2349, TSP-1@20', 5/14/2009 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
Methyl t-butyl ether	**0.23**	**mg/kg**	**0.0050**		**EPA-8260**	**05/26/09**	**05/27/09 15:55**	**JSK**	**MS-V3**	**1**	**BSE1577**	**ND**	
Toluene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577	ND	
Total Purgeable Petroleum Hydrocarbons	**0.24**	**mg/kg**	**0.20**		**Luft-GC/MS**	**05/26/09**	**05/27/09 15:55**	**JSK**	**MS-V3**	**1**	**BSE1577**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	109	%	70 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577		
Toluene-d8 (Surrogate)	97.8	%	81 - 117 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577		
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 15:55	JSK	MS-V3	1	BSE1577		

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Chemical Analysis

BCL Sample ID: 0906724-06 | **Client Sample Name:** 0843/2349, TSP-1@20', 5/14/2009 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	18	mg/kg	10		EPA-300.0	05/28/09	05/28/09 16:21	VH1	IC2	1	BSE1707	ND	

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Rancho Cordova, CA 95670	Project Manager: Jim Barnard	

Total Concentrations (TTLC)

BCL Sample ID: 0906724-06 | **Client Sample Name:** 0843/2349, TSP-1@20', 5/14/2009 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	140	mg/kg	0.50		EPA-6010B	05/28/09	05/29/09 10:06	PPS	PE-OP1	0.962	BSE1710	ND	

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Project: 0843/2349
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Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906724-07 | **Client Sample Name:** 0843/2349, MW-8@15', 5/14/2009 12:36:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20		Luft-GC/MS	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577	ND	
1,2-Dichloroethane-d4 (Surrogate)	114	%	70 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577		
Toluene-d8 (Surrogate)	99.7	%	81 - 117 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577		
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 16:22	JSK	MS-V3	1	BSE1577		

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Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Chemical Analysis

BCL Sample ID: 0906724-07 | **Client Sample Name:** 0843/2349, MW-8@15', 5/14/2009 12:36:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	10	mg/kg	10		EPA-300.0	05/28/09	05/28/09 16:35	VH1	IC2	1	BSE1707	ND	

Delta Environmental Consultants, Inc.	Project: 0843/2349	**Reported:** 06/02/2009 16:42
11050 White Rock Rd, Suite 110	Project Number: 4511269971	
Rancho Cordova, CA 95670	Project Manager: Jim Barnard	

Total Concentrations (TTLC)

BCL Sample ID: 0906724-07 | **Client Sample Name:** 0843/2349, MW-8@15', 5/14/2009 12:36:00PM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	120	mg/kg	0.50		EPA-6010B	05/28/09	05/29/09 10:08	PPS	PE-OP1	0.971	BSE1710	ND	

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906724-08 | **Client Sample Name:** 0843/2349, MW-10@10', 5/20/2009 9:23:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
Ethylbenzene	**0.059**	**mg/kg**	**0.0050**		**EPA-8260**	**05/26/09**	**05/27/09 17:41**	**JSK**	**MS-V3**	**1**	**BSE1577**	**ND**	
Methyl t-butyl ether	**0.0081**	**mg/kg**	**0.0050**		**EPA-8260**	**05/26/09**	**05/27/09 17:41**	**JSK**	**MS-V3**	**1**	**BSE1577**	**ND**	
Toluene	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577	ND	
Total Purgeable Petroleum Hydrocarbons	**0.63**	**mg/kg**	**0.20**		**Luft-GC/MS**	**05/26/09**	**05/27/09 17:41**	**JSK**	**MS-V3**	**1**	**BSE1577**	**ND**	
1,2-Dichloroethane-d4 (Surrogate)	100	%	70 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577		
Toluene-d8 (Surrogate)	99.4	%	81 - 117 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577		
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260	05/26/09	05/27/09 17:41	JSK	MS-V3	1	BSE1577		

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:42

Chemical Analysis

BCL Sample ID: 0906724-08 | **Client Sample Name:** 0843/2349, MW-10@10', 5/20/2009 9:23:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Sulfate	ND	mg/kg	10		EPA-300.0	05/28/09	05/28/09 16:49	VH1	IC2	1	BSE1707	ND	

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:42

Total Concentrations (TTLC)

BCL Sample ID: 0906724-08 | **Client Sample Name:** 0843/2349, MW-10@10', 5/20/2009 9:23:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	180	mg/kg	0.50		EPA-6010B	05/28/09	05/29/09 10:10	PPS	PE-OP1	0.990	BSE1710	ND	

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:42

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BSE1577	Matrix Spike	0906490-13	0	0.11641	0.12500	mg/kg		93.1		70 - 130	
		Matrix Spike Duplicate	0906490-13	0	0.10847	0.12500	mg/kg	7.0	86.8	20	70 - 130	
Toluene	BSE1577	Matrix Spike	0906490-13	0	0.11435	0.12500	mg/kg		91.5		70 - 130	
		Matrix Spike Duplicate	0906490-13	0	0.10702	0.12500	mg/kg	6.7	85.6	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSE1577	Matrix Spike	0906490-13	ND	0.046835	0.050000	mg/kg		93.7		70 - 121	
		Matrix Spike Duplicate	0906490-13	ND	0.049193	0.050000	mg/kg		98.4		70 - 121	
Toluene-d8 (Surrogate)	BSE1577	Matrix Spike	0906490-13	ND	0.048632	0.050000	mg/kg		97.3		81 - 117	
		Matrix Spike Duplicate	0906490-13	ND	0.049217	0.050000	mg/kg		98.4		81 - 117	
4-Bromofluorobenzene (Surrogate)	BSE1577	Matrix Spike	0906490-13	ND	0.049500	0.050000	mg/kg		99.0		74 - 121	
		Matrix Spike Duplicate	0906490-13	ND	0.048697	0.050000	mg/kg		97.8		74 - 121	

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Chemical Analysis

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Sulfate	BSE1707	Duplicate	0906724-01	2.4100	ND		mg/kg			20		A02
		Matrix Spike	0906724-01	2.4100	1006.3	1010.1	mg/kg		99.4		80 - 120	
		Matrix Spike Duplicate	0906724-01	2.4100	1003.9	1010.1	mg/kg	0.3	99.1	20	80 - 120	

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 0843/2349 Project Number: 4511269971 Project Manager: Jim Barnard	**Reported:** 06/02/2009 16:42

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Manganese	BSE1710	Duplicate	0906628-02	229.55	225.40		mg/kg	1.8		20		
		Matrix Spike	0906628-02	229.55	437.37	194.17	mg/kg		107		75 - 125	
		Matrix Spike Duplicate	0906628-02	229.55	440.17	194.17	mg/kg	0.9	108	20	75 - 125	

Delta Environmental Consultants, Inc.	Project: 0843/2349	**Reported:** 06/02/2009 16:42
11050 White Rock Rd, Suite 110	Project Number: 4511269971	
Rancho Cordova, CA 95670	Project Manager: Jim Barnard	

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BSE1577	BSE1577-BS1	LCS	0.11373	0.12500	0.0050	mg/kg	91.0		70 - 130		
Toluene	BSE1577	BSE1577-BS1	LCS	0.11430	0.12500	0.0050	mg/kg	91.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSE1577	BSE1577-BS1	LCS	0.046996	0.050000		mg/kg	94.0		70 - 121		
Toluene-d8 (Surrogate)	BSE1577	BSE1577-BS1	LCS	0.049460	0.050000		mg/kg	98.9		81 - 117		
4-Bromofluorobenzene (Surrogate)	BSE1577	BSE1577-BS1	LCS	0.049567	0.050000		mg/kg	99.1		74 - 121		

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Chemical Analysis

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Sulfate	BSE1707	BSE1707-BS1	LCS	100.25	100.00	1.0	mg/kg	100		90 - 110		

Delta Environmental Consultants, Inc.	Project: 0843/2349	**Reported:** 06/02/2009 16:42
11050 White Rock Rd, Suite 110	Project Number: 4511269971	
Rancho Cordova, CA 95670	Project Manager: Jim Barnard	

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Manganese	BSE1710	BSE1710-BS1	LCS	212.61	200.00	0.50	mg/kg	106		75 - 125		

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BSE1577	BSE1577-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BSE1577	BSE1577-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BSE1577	BSE1577-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BSE1577	BSE1577-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BSE1577	BSE1577-BLK1	ND	mg/kg	0.0050		
Toluene	BSE1577	BSE1577-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BSE1577	BSE1577-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BSE1577	BSE1577-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BSE1577	BSE1577-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BSE1577	BSE1577-BLK1	ND	mg/kg	0.0050		
Ethanol	BSE1577	BSE1577-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BSE1577	BSE1577-BLK1	ND	mg/kg	0.0050		
Total Purgeable Petroleum Hydrocarbons	BSE1577	BSE1577-BLK1	ND	mg/kg	0.20		
1,2-Dichloroethane-d4 (Surrogate)	BSE1577	BSE1577-BLK1	96.7	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSE1577	BSE1577-BLK1	99.7	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSE1577	BSE1577-BLK1	102	%	74 - 121 (LCL - UCL)		

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Chemical Analysis

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Sulfate	BSE1707	BSE1707-BLK1	ND	mg/kg	10		

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

Project: 0843/2349
Project Number: 4511269971
Project Manager: Jim Barnard

Reported: 06/02/2009 16:42

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Manganese	BSE1710	BSE1710-BLK1	ND	mg/kg	0.50		

Delta Environmental Consultants, Inc.	Project: 0843/2349	**Reported:** 06/02/2009 16:42
11050 White Rock Rd, Suite 110	Project Number: 4511269971	
Rancho Cordova, CA 95670	Project Manager: Jim Barnard	

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.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
S01	Sample result is not within the quantitation range of the method.

26 [redacted]

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 SAP Project Number:

ConocoPhillips Requisition / Line Number:

DATE: 5/20/2009

PAGE: 1 of 1

SAMPLING COMPANY: Delta Consultants	Valid Value ID:
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670	
PROJECT CONTACT (Hardcopy or PDF Report to): James Barnard	
TELEPHONE: (916) 503-1279	FAX: (916) 638-8385
E-MAIL: JBarnard@deltaenv.com	
SAMPLER NAME(S) (Print): Caitlin Morgan	CONSULTANT PROJECT NUMBER: C102349
CONOCOPHILLIPS SITE NUMBER: (Former) 76 Station 0843/2349	GLOBAL ID NO.: T0600102263
SITE ADDRESS (Street and City): 1629 Webster Street, Alameda, California	CONOCOPHILLIPS SITE MANAGER: Terry Grayson
EDF DELIVERABLE TO (RP or Designee): James Barnard (Delta)	PHONE NO.: 916-638-8385
E-MAIL: JBarnard@deltaenv.com	LAB USE ONLY: 09-06724

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 ☑

* 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.	8260B - ~~TPH-G~~ TPPH only /BTEX/ 8 Oxygenates (including ethanol)	EPA Method 300.0 - Sulfate	~~EPA Method 3500 FE-D Ferrous Iron~~ *	EPA Method 200.8 - Total Manganese	EPA Method 415.1 - Total Carbon	EPA Method 200.8 - Dissolved Manganese	Dissolved Oxygen	Oxidation Reduction Potential													FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
1	MW-9 @ 10'	5/13	14:40	S	1	X ↓	X ↓	X ↓	X ↓	X ↓																PID, MW-7 = 1530 ppm
2	MW-7 @ 10'	5/14	16:45	S	1																					PID, MW-9 = 2105 ppm
3	MW-1BR @ 20'	5/15	13:41	S	1																					
4	MW-1AR @ 20'	5/13	11:23	S	1																					
5	MW-11 @ 10'	5/15	9:15	S	1																					
6	TSP-1 @ 20'	5/14	9:10	S	1																					
7	MW-8 @ 15'	5/14	12:36	S	1																					
8	MW-10 @ 10'	5/20	9:23	S	1	X	X	X	X	X																

TEMPERATURE ON RECEIPT C°

DISTRIBUTION
SUB-OUT ☐

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Caitlin Morgan 5/20/09	Ross Dickey BC Lab	5/20/09	1240
Ross Dickey 5/20/09 12:40	R. Ruyen	5.20.09	1900
R. Ruyen 5-20.09 2150	[illegible signature]	5/20/09	2150

9/19/03 Revision

* cancel Ferrous Iron

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

Submission #: 09-060724

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: 0.98 Container: Soil Sleeve Thermometer ID: TH052 TH113

Temperature: A 1.9 °C / C 2.4 °C JNW 5/20

Date/Time 5/20/09 2157

Analyst Init: JNW

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		
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:_____

Sample Numbering Completed By: JNW Date/Time: 5/21/09 1025

A = Actual / C = Corrected

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

BC LABORATORIES, INC.

June 2, 2009

Delta Environmental Consultants, Inc
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670
Attn: Jim Barnard
RE: 09-06724

BC Lab #	Client Sample ID	Sample Date	Sample Time
09-06724-01	MW-9 @ 10'	05/13/09	14:40
09-06724-02	MW-7 @ 10'	05/14/09	16:45
09-06724-03	MW-1BR @ 20'	05/15/09	13:41
09-06724-04	MW-1AR @ 20'	05/13/09	11:23
09-06724-05	MW-11 @ 10'	05/15/09	09:15
09-06724-06	TSP-1 @ 20'	05/14/09	09:10
09-06724-07	MW-8 @ 15'	05/14/09	12:36
09-06724-08	MW-10 @ 10'	05/20/09	09:23

Attached are the results Analyzed by Advanced Technology Laboratories.

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Jun-09*

CLIENT:	BC Laboratories, Inc.	**Client Sample ID:**	0906724-01-A
Lab Order:	105698	**Collection Date:**	5/13/2009 2:40:00 PM
Project:	0906724	**Matrix:**	SOLID
Lab ID:	105698-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			EPA 9060			
RunID: TOC1_090529A	QC Batch: R109436			PrepDate:		Analyst: **JSD**
Total Organic Carbon	740	30		mg/Kg	1	5/29/2009 10:38 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Jun-09*

CLIENT:	BC Laboratories, Inc.	**Client Sample ID:**	0906724-02
Lab Order:	105698	**Collection Date:**	5/14/2009 4:45:00 PM
Project:	0906724	**Matrix:**	SOLID
Lab ID:	105698-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			EPA 9060			
RunID: TOC1_090529A	QC Batch: R109436			PrepDate:		Analyst: **JSD**
Total Organic Carbon	2900	30		mg/Kg	1	5/29/2009 12:24 PM

Qualifiers:			
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Jun-09*

CLIENT:	BC Laboratories, Inc.	**Client Sample ID:**	0906724-03
Lab Order:	105698	**Collection Date:**	5/15/2009 1:41:00 PM
Project:	0906724	**Matrix:**	SOLID
Lab ID:	105698-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			EPA 9060			
RunID: TOC1_090529A	QC Batch: R109436			PrepDate:		Analyst: **JSD**
Total Organic Carbon	220	30		mg/Kg	1	5/29/2009 12:55 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Jun-09*

CLIENT:	BC Laboratories, Inc.	**Client Sample ID:**	0906724-04
Lab Order:	105698	**Collection Date:**	5/13/2009 11:23:00 AM
Project:	0906724	**Matrix:**	SOLID
Lab ID:	105698-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			EPA 9060			
RunID: TOC1_090529A	QC Batch: R109436			PrepDate:		Analyst: JSD
Total Organic Carbon	230	30		mg/Kg	1	5/29/2009 01:41 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit	
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified	
	DO	Surrogate Diluted Out			

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Jun-09*

CLIENT:	BC Laboratories, Inc.	**Client Sample ID:**	0906724-05
Lab Order:	105698	**Collection Date:**	5/15/2009 9:15:00 AM
Project:	0906724	**Matrix:**	SOLID
Lab ID:	105698-005A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			EPA 9060			
RunID: TOC1_090529A	QC Batch: R109436			PrepDate:		Analyst: **JSD**
Total Organic Carbon	390	30		mg/Kg	1	5/29/2009 02:12 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Jun-09*

CLIENT:	BC Laboratories, Inc.	**Client Sample ID:**	0906724-06
Lab Order:	105698	**Collection Date:**	5/14/2009 9:10:00 AM
Project:	0906724	**Matrix:**	SOLID
Lab ID:	105698-006A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			EPA 9060			
RunID: TOC1_090529A	QC Batch: R109436			PrepDate:		Analyst: **JSD**
Total Organic Carbon	230	30		mg/Kg	1	5/29/2009 02:41 PM

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Jun-09*

CLIENT:	BC Laboratories, Inc.	**Client Sample ID:**	0906724-07
Lab Order:	105698	**Collection Date:**	5/14/2009 12:36:00 PM
Project:	0906724	**Matrix:**	SOLID
Lab ID:	105698-007A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			EPA 9060			
RunID: TOC1_090529A	QC Batch: R109436			PrepDate:		Analyst: **JSD**
Total Organic Carbon	550	30		mg/Kg	1	5/29/2009 03:22 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *01-Jun-09*

CLIENT:	BC Laboratories, Inc.	**Client Sample ID:**	0906724-08
Lab Order:	105698	**Collection Date:**	5/20/2009 9:23:00 AM
Project:	0906724	**Matrix:**	SOLID
Lab ID:	105698-008A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
			EPA 9060			
RunID: TOC1_090529A	QC Batch: R109436			PrepDate:		Analyst: **JSD**
Total Organic Carbon	300	30		mg/Kg	1	5/29/2009 04:07 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

Date: *01-Jan-09*

CLIENT: BC Laboratories, Inc.
Work Order: 105698
Project: 0906724

ANALYTICAL QC SUMMARY REPORT

TestCode: 9060_S

Sample ID: MB-R109436	SampType: MBLK	TestCode: 9060_S	Units: mg/Kg	Prep Date:	RunNo: 109436
Client ID: PBS	Batch ID: R109436	TestNo: EPA 9060		Analysis Date: 5/29/2009	SeqNo: 1718801

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	30									

Sample ID: LCS-R109436	SampType: LCS	TestCode: 9060_S	Units: mg/Kg	Prep Date:	RunNo: 109436
Client ID: LCSS	Batch ID: R109436	TestNo: EPA 9060		Analysis Date: 5/29/2009	SeqNo: 1718802

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	960.600	30	1000	0	96.1	80	120				

Sample ID: 105698-001A-MS	SampType: MS	TestCode: 9060_S	Units: mg/Kg	Prep Date:	RunNo: 109436
Client ID: 0906724-01-A	Batch ID: R109436	TestNo: EPA 9060		Analysis Date: 5/29/2009	SeqNo: 1718804

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1762.000	30	1000	740.4	102	70	130				

Sample ID: 105698-001A-MSD	SampType: MSD	TestCode: 9060_S	Units: mg/Kg	Prep Date:	RunNo: 109436
Client ID: 0906724-01-A	Batch ID: R109436	TestNo: EPA 9060		Analysis Date: 5/29/2009	SeqNo: 1718805

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	1817.000	30	1000	740.4	108	70	130	1762	3.07	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Appendix F-
TRC Quarterly Monitoring Report
(July 7, 2009)

21 Technology Drive
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: July 7, 2009

TO: ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. TERRY GRAYSON

SITE: FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2009

Dear Mr. Grayson:

Please find enclosed our Quarterly Monitoring Report for Former 76 Station 0843, located at 1629 Webster Street, Alameda, 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. James Barnard, Delta Consultants (2 copies)

Enclosures
20-0400/0843R24.QMS

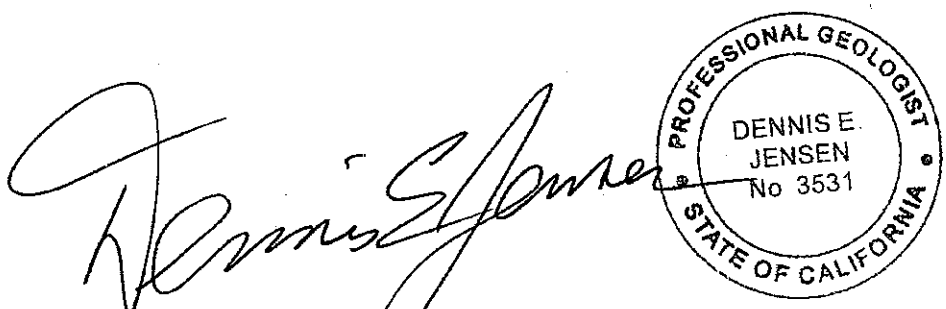
QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2009

FORMER 76 STATION 0843
1629 Webster Street
Alameda, California

Prepared For:

Mr. Terry Grayson
ConocoPhillips Company
76 Broadway
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations

Date: 7/7/09

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 1b: 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
Coordinated Event Data	*Shell Service Station* Well Concentrations
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map Figure 6: Dissolved-Phase TBA Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheets – 05/28/09 Groundwater Sampling Field Notes – 05/28/09
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
April 2009 through June 2009
Former 76 Station 0843
1629 Webster Street
Alameda, CA

Project Coordinator: **Terry Grayson**
Telephone: **916-558-7666**
Water Sampling Contractor: ***TRC***
Compiled by: **Christina Carrillo**
Date(s) of Gauging/Sampling Event: **05/28/09**

Sample Points

Groundwater wells: **10** onsite, **2** offsite Points gauged: **12** Points sampled: **12**
Purging method: **Submersible pump**
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: **5.12 feet** Maximum: **8.29 feet**
Average groundwater elevation (relative to available local datum): **11.87 feet**
Average change in groundwater elevation since previous event: **0.16 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.02 ft/ft, east**
Previous event: **0.004 ft/ft, north (02/24/09)**

Selected Laboratory Results

Sample Points with detected **Benzene:** **0** Sample Points above MCL (1.0 µg/l): --
Maximum reported benzene concentration: --

Sample Points with **TPH-G by GC/MS** **9** Maximum: **1,200 µg/l (MW-9)**
Sample Points with **MTBE 8260B** **9** Maximum: **15,000 µg/l (MW-11, MW-7)**

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
Trace	=	less than 0 01 foot of LPH in well
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

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
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
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

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

REFERENCE

TRC began groundwater monitoring and sampling for Former 76 Station 0843 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc

Contents of Tables 1 and 2
Site: Former 76 Station 0843

Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G 8015	TPH-G (GC/MS)	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	Carbon (organic, total)	Chromium VI	Chromium (total)	Iron Ferrous	Manganese (dissolved)
Table 1b	Well/ Date	Manganese (total)	Nitrogen as Nitrate	Sulfate	Dissolved Oxygen (Lab)	Redox Potential (ORP-Lab)	Specific Con-ductance	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP		

Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G 8015	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)
Table 2a	Well/ Date	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Carbon (organic, total)	Chromium VI	Chromium (total)	Iron Ferrous	Manganese (dissolved)
Table 2b	Well/ Date	Manganese (total)	Nitrogen as Nitrate	Sulfate	Dissolved Oxygen (Lab)	Redox Potential (ORP-Lab)	Specific Con-ductance	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP		

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 28, 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-1			**(Screen Interval in feet: 4.5-20.5)**											
05/28/09	19.13	6.46	0.00	12.67	0.27	--	1000	ND<10	ND<10	ND<10	ND<20	--	4100	
MW-1AR			**(Screen Interval in feet: 25-30)**											
05/28/09	19.29	7.25	0.00	12.04	--	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	930	
MW-1BR			**(Screen Interval in feet: 30-35)**											
05/28/09	19.13	6.70	0.00	12.43	--	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	810	
MW-3			**(Screen Interval in feet: 5.0-20.0)**											
05/28/09	18.05	5.64	0.00	12.41	0.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-4			**(Screen Interval in feet: 5.0-20.5)**											
05/28/09	18.14	5.70	0.00	12.44	0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5			**(Screen Interval in feet: 5-20)**											
05/28/09	16.45	5.12	0.00	11.33	-0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-6			**(Screen Interval in feet: 5-20)**											
05/28/09	16.97	5.26	0.00	11.71	-0.06	--	74	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
MW-7			**(Screen Interval in feet: 25-30)**											
05/28/09	17.81	8.29	0.00	9.52	--	--	1100	ND<0.50	ND<0.50	1.4	7.1	--	15000	
MW-8			**(Screen Interval in feet: 25-30)**											
05/28/09	18.13	7.42	0.00	10.71	--	--	850	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12000	
MW-9			**(Screen Interval in feet: 20-25)**											
05/28/09	18.75	6.24	0.00	12.51	--	--	1200	ND<0.50	ND<0.50	0.75	15	--	13000	
MW-10			**(Screen Interval in feet: 25-30)**											
05/28/09	18.84	6.69	0.00	12.15	--	--	700	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3500	
MW-11			**(Screen Interval in feet: 25-30)**											
05/28/09	18.72	6.18	0.00	12.54	--	--	920	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	15000	

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Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)
MW-1												
05/28/09	ND<200	ND<5000	ND<10	ND<10	ND<10	ND<10	ND<10	1.8	2.0	87	ND<500	2.4
MW-1AR												
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.6	--	--	--	--	--
MW-1BR												
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	--	--	--	--	--
MW-3												
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
MW-4												
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
MW-5												
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
MW-6												
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
MW-7												
05/28/09	150	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--	--
MW-8												
05/28/09	36	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.7	9.9	ND<2.0	140	ND<1000	280
MW-9												
05/28/09	40	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--	--
MW-10												
05/28/09	39	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.6	2.4	2.0	ND<10	150	280
MW-11												
05/28/09	140	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.4	--	--	--	--	--

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Table 1 b
ADDITIONAL CURRENT ANALYTICAL RESULTS
Former 76 Station 0843

Date Sampled	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (µmhos)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
MW-1										
05/28/09	550	9.9	25	8.6	130	463	0.80	2.95	119	171
MW-1AR										
05/28/09	--	--	--	--	--	--	1.72	0.95	144	177
MW-1BR										
05/28/09	--	--	--	--	--	--	0.61	1.37	145	165
MW-3										
05/28/09	--	--	--	--	--	--	0.61	4.03	141	85
MW-4										
05/28/09	--	--	--	--	--	--	3.68	3.76	141	55
MW-5										
05/28/09	--	--	--	--	--	--	1.71	4.32	138	94
MW-6										
05/28/09	--	--	--	--	--	--	1.06	1.85	142	56
MW-7										
05/28/09	--	--	--	--	--	--	1.24	0.63	160	124
MW-8										
05/28/09	830	12	130	9.0	124	923	2.22	1.38	146	68
MW-10										
05/28/09	350	9.1	30	7.1	139	661	0.30	1.76	151	156
MW-11										
05/28/09	--	--	--	--	--	--	0.22	0.80	1.56	147

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-1			**(Screen Interval in feet: 4.5-20.5)**											
03/05/99	16.18	--	--	--	--	86.6	--	ND	2.04	ND	4.06	--	23.9	
06/03/99	16.18	6.24	0.00	9.94	--	ND	--	ND	ND	ND	ND	ND	ND	
09/02/99	16.18	7.19	0.00	8.99	-0.95	ND	--	ND	ND	ND	ND	ND	ND	
12/14/99	16.18	8.07	0.00	8.11	-0.88	ND	--	ND	ND	ND	ND	ND	--	
03/14/00	16.18	5.47	0.00	10.71	2.60	ND	--	ND	ND	ND	ND	ND	--	
05/31/00	16.18	6.22	0.00	9.96	-0.75	ND	--	ND	ND	ND	ND	ND	--	
08/29/00	16.18	6.82	0.00	9.36	-0.60	ND	--	ND	ND	ND	ND	ND	--	
12/01/00	16.18	7.54	0.00	8.64	-0.72	ND	--	ND	ND	ND	ND	ND	--	
03/17/01	16.18	5.73	0.00	10.45	1.81	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	16.18	6.43	0.00	9.75	-0.70	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	16.18	7.12	0.00	9.06	-0.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	16.18	6.89	0.00	9.29	0.23	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
03/11/02	16.18	5.61	0.00	10.57	1.28	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	16.18	5.71	0.00	10.47	-0.10	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
09/03/02	16.18	--	--	--	--	--	--	--	--	--	--	--	--	Not monitored/sampled
12/12/02	16.18	7.80	0.00	8.38	--	--	--	--	--	--	--	--	--	No longer sampled
03/13/03	16.18	5.94	0.00	10.24	1.86	--	--	--	--	--	--	--	--	
06/12/03	16.18	6.10	0.00	10.08	-0.16	--	--	--	--	--	--	--	--	
09/12/03	16.18	6.65	0.00	9.53	-0.55	--	--	--	--	--	--	--	--	
12/31/03	16.18	5.74	0.00	10.44	0.91	--	--	--	--	--	--	--	--	Monitored Only
02/12/04	16.18	6.02	0.00	10.16	-0.28	--	--	--	--	--	--	--	--	Monitored Only
06/07/04	16.18	6.61	0.00	9.57	-0.59	--	--	--	--	--	--	--	--	Monitored Only

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-1 continued														
09/17/04	16.18	7.58	0.00	8.60	-0.97	--	--	--	--	--	--	--	--	Sampled Q1 only
12/11/04	16.18	6.49	0.00	9.69	1.09	--	--	--	--	--	--	--	--	Sampled Q1 only
03/15/05	16.18	5.28	0.00	10.90	1.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
05/17/05	16.18	5.83	0.00	10.35	-0.55	--	--	--	--	--	--	--	--	Sampled Q1 only
07/27/05	16.18	6.52	0.00	9.66	-0.69	--	--	--	--	--	--	--	--	Sampled Q1 only
11/23/05	16.18	7.28	0.00	8.90	-0.76	--	--	--	--	--	--	--	--	Sampled Q1 only
02/24/06	16.18	6.60	0.00	9.58	0.68	--	910	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5100	
05/30/06	16.18	6.48	0.00	9.70	0.12	--	--	--	--	--	--	--	--	Sampled Q1 only
08/30/06	16.18	9.51	0.00	6.67	-3.03	--	--	--	--	--	--	--	--	Sampled Q1 only
11/22/06	16.18	7.05	0.00	9.13	2.46	--	220	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	420	
02/23/07	16.18	6.40	0.00	9.78	0.65	--	1300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	1700	
05/18/07	16.18	6.65	0.00	9.53	-0.25	--	2300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	3300	
08/10/07	16.18	7.26	0.00	8.92	-0.61	--	4100	ND<25	ND<25	ND<25	ND<25	--	4300	
11/09/07	16.18	7.40	0.00	8.78	-0.14	--	5700	ND<25	ND<25	ND<25	ND<25	--	5400	
02/08/08	16.18	6.09	0.00	10.09	1.31	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	4100	
05/16/08	16.18	6.87	0.00	9.31	-0.78	--	1800	ND<12	ND<12	ND<12	42	--	3500	
08/15/08	16.18	7.78	0.00	8.40	-0.91	--	1200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1900	
11/26/08	16.18	8.65	0.00	7.53	-0.87	--	720	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2400	
02/24/09	19.13	6.73	0.00	12.40	4.87	--	630	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2300	
05/28/09	19.13	6.46	0.00	12.67	0.27	--	1000	ND<10	ND<10	ND<10	ND<20	--	4100	
MW-1AR			**(Screen Interval in feet: 25-30)**											
05/28/09	19.29	7.25	0.00	12.04	--	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	930	
MW-1BR			**(Screen Interval in feet: 30-35)**											

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-1BR continued														
05/28/09	19.13	6.70	0.00	12.43	--	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	810	
MW-2			**(Screen Interval in feet: 4.5-20.5)**											
03/05/99	15.57	--	0.00	--	--	34400	--	2070	7710	2340	8240	--	8460	
06/03/99	15.57	5.96	0.00	9.61	--	51200	--	1820	7570	2510	7320	6460	8800	
09/02/99	15.57	6.85	0.00	8.72	-0.89	17000	--	1000	3100	1400	3700	4000	3720	
12/14/99	15.57	7.65	0.00	7.92	-0.80	83000	--	3000	22000	4500	17000	9100	11000	
03/14/00	15.57	5.26	0.00	10.31	2.39	31000	--	1600	4600	2300	7300	5700	8700	
05/31/00	15.57	5.60	0.00	9.97	-0.34	9970	--	598	1030	487	2060	2500	1670	
08/29/00	15.57	6.35	0.00	9.22	-0.75	7900	--	390	1500	280	1900	1800	1300	
12/01/00	15.57	7.06	0.00	8.51	-0.71	87500	--	1860	17400	5590	19400	6220	3790	
03/17/01	15.57	5.98	0.00	9.59	1.08	4310	--	371	59.0	280	682	321	433	
05/23/01	15.57	6.97	0.00	8.60	-0.99	45400	--	374	4490	2790	10900	ND	406	
09/24/01	15.57	7.56	0.00	8.01	-0.59	76000	--	430	13000	4700	18000	ND<2000	480	
12/10/01	15.57	6.52	0.00	9.05	1.04	82000	--	320	9100	4400	16000	ND<2500	270	
03/11/02	15.57	5.51	0.00	10.06	1.01	14000	--	75	1400	1100	3600	ND<250	150	
06/07/02	15.57	5.73	0.00	9.84	-0.22	14000	--	120	1200	1400	4700	540	200	
09/03/02	15.57	6.81	0.00	8.76	-1.08	10000	--	150	1200	610	2800	510	460	
12/12/02	15.57	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed, replaced with MW-2A
MW-2a			**(Screen Interval in feet: 5-11.5)**											
12/12/02	15.56	7.45	0.00	8.11	--	3400	--	80	260	210	1000	380	400	
03/13/03	--	5.85	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	1.8	2.4	2.4	
06/12/03	--	6.08	0.00	--	--	ND<50	--	0.59	0.69	ND<0.50	1.2	6.0	4.7	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-2A continued														
09/12/03	15.56	6.54	0.00	9.02	--	--	120	1.8	4.2	6.1	20	--	6.6	
12/31/03	15.56	5.63	0.00	9.93	0.91	88	--	0.79	1.8	3.6	14	ND<5.0	2.9	
02/12/04	15.56	5.68	0.00	9.88	-0.05	160	--	2.6	4.8	13	48	7.2	7.9	
06/07/04	15.56	6.21	0.00	9.35	-0.53	94	--	0.80	1.2	2.1	9.1	4.5	3.7	
09/17/04	15.56	7.16	0.00	8.40	-0.95	--	230	3.5	6.1	13	41	--	83	
12/11/04	15.56	5.84	0.00	9.72	1.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
03/15/05	15.56	5.52	0.00	10.04	0.32	--	92	0.84	1.7	2.4	9.8	--	ND<10	
05/17/05	15.56	5.55	0.00	10.01	-0.03	--	54	2.1	1.7	1.9	7.0	--	2.9	
07/27/05	15.56	6.16	0.00	9.40	-0.61	--	ND<50	0.66	1.1	1.3	4.2	--	3.7	
11/23/05	15.56	6.88	0.00	8.68	-0.72	--	120	1.3	2.8	7.8	30	--	10	
02/24/06	15.56	5.79	0.00	9.77	1.09	--	84	0.51	1.2	4.2	16	--	7.2	
05/30/06	15.56	5.62	0.00	9.94	0.17	--	69	0.90	2.2	3.7	14	--	4.1	
08/30/06	15.56	6.38	0.00	9.18	-0.76	--	77	ND<0.50	0.50	1.0	3.3	--	2.5	
11/22/06	15.56	6.60	0.00	8.96	-0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	2.2	--	0.59	
02/23/07	15.56	6.05	0.00	9.51	0.55	--	ND<50	ND<0.50	0.66	ND<0.50	1.1	--	0.72	
05/18/07	15.56	6.29	0.00	9.27	-0.24	--	ND<50	ND<0.50	ND<0.50	0.68	1.6	--	0.81	
08/10/07	15.56	6.90	0.00	8.66	-0.61	--	ND<50	ND<0.50	ND<0.50	1.6	3.9	--	ND<0.50	
11/09/07	15.56	6.96	0.00	8.60	-0.06	--	ND<50	ND<0.50	ND<0.50	2.4	4.4	--	ND<0.50	
02/08/08	15.56	5.76	0.00	9.80	1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/16/08	15.56	6.50	0.00	9.06	-0.74	--	ND<50	ND<0.50	ND<0.50	0.56	1.2	--	ND<0.50	
08/15/08	15.56	7.35	0.00	8.21	-0.85	--	78	ND<0.50	0.79	2.9	6.5	--	ND<0.50	
11/26/08	15.56	8.12	0.00	7.44	-0.77	--	120	0.56	0.66	4.6	6.0	--	1.8	
02/24/09	18.51	6.19	0.00	12.32	4.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-3			**(Screen Interval in feet: 5.0-20.0)**											
03/05/99	15.11	--	0.00	--	--	135	--	ND	ND	ND	4.84	--	2.46	
06/03/99	15.11	5.57	0.00	9.54	--	ND	--	ND	ND	ND	ND	5.23	12.7	
09/02/99	15.11	6.50	0.00	8.61	-0.93	ND	--	ND	ND	ND	ND	13	11	
12/14/99	15.11	7.28	0.00	7.83	-0.78	ND	--	ND	ND	ND	ND	ND	--	
03/14/00	15.11	4.87	0.00	10.24	2.41	ND	--	ND	ND	ND	ND	7.2	6.3	
05/31/00	15.11	5.58	0.00	9.53	-0.71	ND	--	ND	ND	ND	ND	ND	--	
08/29/00	15.11	6.06	0.00	9.05	-0.48	ND	--	ND	ND	ND	ND	ND	ND	
12/01/00	15.11	6.76	0.00	8.35	-0.70	ND	--	ND	ND	ND	ND	ND	--	
03/17/01	15.11	5.09	0.00	10.02	1.67	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	15.11	5.72	0.00	9.39	-0.63	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	15.11	6.34	0.00	8.77	-0.62	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	15.11	6.31	0.00	8.80	0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
03/11/02	15.11	5.15	0.00	9.96	1.16	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	15.11	5.45	0.00	9.66	-0.30	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/02	15.11	7.15	0.00	7.96	-1.70	--	--	--	--	--	--	--	--	No longer sampled
03/13/03	15.11	5.37	0.00	9.74	1.78	--	--	--	--	--	--	--	--	
06/12/03	15.11	5.51	0.00	9.60	-0.14	--	--	--	--	--	--	--	--	
09/12/03	15.11	6.03	0.00	9.08	-0.52	--	--	--	--	--	--	--	--	
12/31/03	15.11	5.62	0.00	9.49	0.41	--	--	--	--	--	--	--	--	Monitored Only
02/12/04	15.11	5.51	0.00	9.60	0.11	--	--	--	--	--	--	--	--	Monitored Only
06/07/04	15.11	5.92	0.00	9.19	-0.41	--	--	--	--	--	--	--	--	Monitored Only
09/17/04	15.11	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/11/04	15.11	5.94	0.00	9.17	--	--	--	--	--	--	--	--	--	Sampled annually

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-3 continued														
03/11/05	15.11	4.76	0.00	10.35	1.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/17/05	15.11	5.23	0.00	9.88	-0.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/27/05	15.11	5.81	0.00	9.30	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/05	15.11	6.60	0.00	8.51	-0.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
02/24/06	15.11	5.37	0.00	9.74	1.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.2	
05/30/06	15.11	5.08	0.00	10.03	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.92	
08/30/06	15.11	5.52	0.00	9.59	-0.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.51	
11/22/06	15.11	6.38	0.00	8.73	-0.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.94	
02/23/07	15.11	5.72	0.00	9.39	0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.61	
05/18/07	15.11	5.94	0.00	9.17	-0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
08/10/07	15.11	7.64	0.00	7.47	-1.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/09/07	15.11	6.75	0.00	8.36	0.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
02/08/08	15.11	5.39	0.00	9.72	1.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/16/08	15.11	6.17	0.00	8.94	-0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
08/15/08	15.11	7.01	0.00	8.10	-0.84	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.3	
11/26/08	15.11	7.73	0.00	7.38	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	
02/24/09	18.05	5.98	0.00	12.07	4.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
05/28/09	18.05	5.64	0.00	12.41	0.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-4			**(Screen Interval in feet: 5.0-20.5)**											
03/05/99	15.17	--	0.00	--	--	ND	--	ND	ND	ND	2.44	--	25.2	
06/03/99	15.17	5.45	0.00	9.72	--	ND	--	ND	ND	ND	ND	ND	3.96	
09/02/99	15.17	6.48	0.00	8.69	-1.03	ND	--	ND	ND	ND	ND	23	27	
12/14/99	15.17	7.27	0.00	7.90	-0.79	ND	--	ND	ND	ND	ND	200	270	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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 continued														
03/14/00	15.17	4.67	0.00	10.50	2.60	ND	--	ND	ND	ND	ND	46	49	
05/31/00	15.17	5.48	0.00	9.69	-0.81	ND	--	ND	ND	ND	ND	ND	--	
08/29/00	15.17	6.10	0.00	9.07	-0.62	ND	--	ND	ND	ND	ND	6.1	3.2	
12/01/00	15.17	6.79	0.00	8.38	-0.69	ND	--	ND	ND	ND	ND	152	101	
03/17/01	15.17	5.01	0.00	10.16	1.78	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	15.17	5.78	0.00	9.39	-0.77	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	15.17	6.42	0.00	8.75	-0.64	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	15.17	6.41	0.00	8.76	0.01	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1700	1300	
03/11/02	15.17	5.05	0.00	10.12	1.36	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	15.17	5.42	0.00	9.75	-0.37	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
09/03/02	15.17	6.50	0.00	8.67	-1.08	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/02	15.17	7.18	0.00	7.99	-0.68	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.9	3.3	
03/13/03	15.17	5.42	0.00	9.75	1.76	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
06/12/03	15.17	5.60	0.00	9.57	-0.18	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
09/12/03	15.17	6.07	0.00	9.10	-0.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/31/03	15.17	5.63	0.00	9.54	0.44	750	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	790	--	
02/12/04	15.17	5.26	0.00	9.91	0.37	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/04	15.17	5.82	0.00	9.35	-0.56	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
09/17/04	15.17	6.86	0.00	8.31	-1.04	--	56	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
12/11/04	15.17	6.01	0.00	9.16	0.85	--	350	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	380	
03/11/05	15.17	4.61	0.00	10.56	1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/17/05	15.17	4.93	0.00	10.24	-0.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/27/05	15.17	5.74	0.00	9.43	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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 continued														
11/23/05	15.17	6.59	0.00	8.58	-0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	23	
02/24/06	15.17	5.19	0.00	9.98	1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.7	
05/30/06	15.17	5.07	0.00	10.10	0.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
08/30/06	15.17	6.02	0.00	9.15	-0.95	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/22/06	15.17	6.37	0.00	8.80	-0.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	16	
02/23/07	15.17	5.61	0.00	9.56	0.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
05/18/07	15.17	5.87	0.00	9.30	-0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
08/10/07	15.17	7.49	0.00	7.68	-1.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/09/07	15.17	6.77	0.00	8.40	0.72	--	50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	39	
02/08/08	15.17	5.10	0.00	10.07	1.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/16/08	15.17	6.06	0.00	9.11	-0.96	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
08/15/08	15.17	6.91	0.00	8.26	-0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.1	--	ND<0.50	
11/26/08	15.17	7.71	0.00	7.46	-0.80	--	55	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
02/24/09	18.14	5.96	0.00	12.18	4.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.8	
05/28/09	18.14	5.70	0.00	12.44	0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5			**(Screen Interval in feet: 5-20)**											
12/14/99	13.34	6.45	0.00	6.89	--	ND	--	ND	ND	ND	ND	3.5	3.8	
03/14/00	13.34	4.46	0.00	8.88	1.99	ND	--	ND	ND	ND	ND	ND	--	
05/31/00	13.34	5.18	0.00	8.16	-0.72	ND	--	ND	ND	ND	ND	ND	--	
08/29/00	13.34	5.46	0.00	7.88	-0.28	ND	--	ND	ND	ND	ND	ND	--	
12/01/00	13.34	5.95	0.00	7.39	-0.49	ND	--	ND	ND	ND	ND	ND	--	
03/17/01	13.34	5.36	0.00	7.98	0.59	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	13.34	5.09	0.00	8.25	0.27	ND	--	ND	ND	ND	ND	ND	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-5 continued														
09/24/01	13.34	5.58	0.00	7.76	-0.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	13.34	5.51	0.00	7.83	0.07	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
03/11/02	13.34	4.70	0.00	8.64	0.81	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
09/03/02	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
12/12/02	13.34	6.42	0.00	6.92	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
03/13/03	13.34	5.12	0.00	8.22	1.30	ND<50	--	ND<0.50	0.54	ND<0.50	ND<0.50	ND<2.0	--	
06/12/03	13.34	5.24	0.00	8.10	-0.12	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
09/12/03	13.34	5.53	0.00	7.81	-0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/31/03	13.34	5.11	0.00	8.23	0.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
02/12/04	13.34	5.02	0.00	8.32	0.09	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/04	13.34	5.35	0.00	7.99	-0.33	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
09/17/04	13.34	6.10	0.00	7.24	-0.75	--	--	--	--	--	--	--	--	Sampled annually
12/11/04	13.34	5.53	0.00	7.81	0.57	--	--	--	--	--	--	--	--	Sampled annually
03/11/05	13.34	4.96	0.00	8.38	0.57	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/17/05	13.34	5.04	0.00	8.30	-0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/27/05	13.34	5.31	0.00	8.03	-0.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/05	13.34	5.86	0.00	7.48	-0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
02/24/06	13.34	5.08	0.00	8.26	0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/30/06	13.34	5.01	0.00	8.33	0.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
08/30/06	13.34	5.65	0.00	7.69	-0.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/22/06	13.34	5.82	0.00	7.52	-0.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
02/23/07	13.34	4.47	0.00	8.87	1.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.53	--	ND<0.50	

TRC

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through May 2009
Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-5 continued														
05/18/07	13.34	5.51	0.00	7.83	-1.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
08/10/07	13.34	6.05	0.00	7.29	-0.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/09/07	13.34	6.10	0.00	7.24	-0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
02/08/08	13.34	5.06	0.00	8.28	1.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/16/08	13.34	5.69	0.00	7.65	-0.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
08/15/08	13.34	6.35	0.00	6.99	-0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/26/08	13.34	6.82	0.00	6.52	-0.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
02/24/09	16.45	5.10	0.00	11.35	4.83	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/28/09	16.45	5.12	0.00	11.33	-0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-6			**(Screen Interval in feet: 5-20)**											
12/14/99	14.08	6.64	0.00	7.44	--	ND	--	ND	ND	ND	ND	11000	18000	
03/14/00	14.08	4.72	0.00	9.36	1.92	ND	--	ND	ND	ND	ND	19000	21000	
05/31/00	14.08	5.28	0.00	8.80	-0.56	ND	--	ND	ND	ND	ND	13200	--	
08/29/00	14.08	5.39	0.00	8.69	-0.11	ND	--	ND	ND	ND	ND	270	400	
12/01/00	14.08	6.11	0.00	7.97	-0.72	ND	--	ND	ND	ND	ND	6330	3640	
03/17/01	14.08	6.02	0.00	8.06	0.09	18700	--	2950	989	1040	3000	10200	11500	
05/23/01	14.08	5.82	0.00	8.26	0.20	ND	--	ND	ND	ND	ND	4660	--	
09/24/01	14.08	6.59	0.00	7.49	-0.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	160	190	
12/10/01	14.08	6.50	0.00	7.58	0.09	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3200	2400	
03/11/02	14.08	4.81	0.00	9.27	1.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	120	
06/07/02	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
09/03/02	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
12/12/02	14.08	6.51	0.00	7.57	--	590	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1500	6200	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

	Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-6	**continued**														
	03/13/03	14.08	5.20	0.00	8.88	1.31	1600	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4900	4100	
D	03/13/03	14.08	5.20	0.00	8.88	1.31	--	--	--	--	--	--	--	5100	
	06/12/03	14.08	5.38	0.00	8.70	-0.18	1600	--	ND<10	ND<10	ND<10	ND<10	5200	3700	
	09/12/03	14.08	6.29	0.00	7.79	-0.91	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	310	
	12/31/03	14.08	5.38	0.00	8.70	0.91	3300	--	ND<25	ND<25	ND<25	ND<25	3800	--	
	02/12/04	14.08	5.06	0.00	9.02	0.32	1100	--	ND<10	ND<10	ND<10	ND<10	1900	2800	
	06/07/04	14.08	5.45	0.00	8.63	-0.39	2500	--	ND<3	ND<3	ND<3	ND<6	3200	2900	
	09/17/04	14.08	6.20	0.00	7.88	-0.75	--	1300	ND<10	ND<10	ND<10	ND<20	--	2000	
	12/11/04	14.08	5.60	0.00	8.48	0.60	--	1800	ND<10	ND<10	ND<10	ND<20	--	2700	
	03/11/05	14.08	4.71	0.00	9.37	0.89	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	2500	
	05/17/05	14.08	4.98	0.00	9.10	-0.27	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2200	
	07/27/05	14.08	5.48	0.00	8.60	-0.50	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1100	
	11/23/05	14.08	6.01	0.00	8.07	-0.53	--	590	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1700	
	02/24/06	14.08	5.12	0.00	8.96	0.89	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	990	
	05/30/06	14.08	5.04	0.00	9.04	0.08	--	ND<1200	ND<12	ND<12	ND<12	ND<25	--	560	
	08/30/06	14.08	7.01	0.00	7.07	-1.97	--	930	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	820	
	11/22/06	14.08	6.16	0.00	7.92	0.85	--	690	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	620	
	02/23/07	14.08	5.44	0.00	8.64	0.72	--	190	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	410	
	05/18/07	14.08	5.63	0.00	8.45	-0.19	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	620	
	08/10/07	14.08	6.71	0.00	7.37	-1.08	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	660	
	11/09/07	14.08	6.17	0.00	7.91	0.54	--	580	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	820	
	02/08/08	14.08	5.20	0.00	8.88	0.97	--	360	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	570	
	05/16/08	14.08	5.70	0.00	8.38	-0.50	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	480	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through May 2009

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (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-6 continued														
08/15/08	14.08	6.46	0.00	7.62	-0.76	--	160	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	450	
11/26/08	14.08	7.01	0.00	7.07	-0.55	--	300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	400	
02/24/09	16.97	5.20	0.00	11.77	4.70	--	250	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	450	
05/28/09	16.97	5.26	0.00	11.71	-0.06	--	74	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
MW-7			**(Screen Interval in feet: 25-30)**											
05/28/09	17.81	8.29	0.00	9.52	--	--	1100	ND<0.50	ND<0.50	1.4	7.1	--	15000	
MW-8			**(Screen Interval in feet: 25-30)**											
05/28/09	18.13	7.42	0.00	10.71	--	--	850	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12000	
MW-9			**(Screen Interval in feet: 20-25)**											
05/28/09	18.75	6.24	0.00	12.51	--	--	1200	ND<0.50	ND<0.50	0.75	15	--	13000	
MW-10			**(Screen Interval in feet: 25-30)**											
05/28/09	18.84	6.69	0.00	12.15	--	--	700	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3500	
MW-11			**(Screen Interval in feet: 25-30)**											
05/28/09	18.72	6.18	0.00	12.54	--	--	920	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	15000	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)
MW-1												
09/02/99	ND	ND	--	--	ND	ND	ND	--	--	--	--	--
03/15/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/06	62	ND<250	--	--	ND<0.50	ND<0.50	5.5	--	--	--	--	--
11/22/06	74	ND<250	--	--	ND<0.50	ND<0.50	0.51	--	--	--	--	--
02/23/07	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--
05/18/07	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--
08/10/07	ND<500	ND<12000	--	--	ND<25	ND<25	ND<25	--	--	--	--	--
11/09/07	ND<500	ND<12000	--	--	ND<25	ND<25	ND<25	--	--	--	--	--
02/08/08	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--
05/16/08	ND<250	ND<6200	--	--	ND<12	ND<12	ND<12	--	--	--	--	--
08/15/08	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--
11/26/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/09	ND<10	ND<250	--	--	ND<0.50	ND<0.50	2.5	1.3	--	--	ND<100	ND<1.0
05/28/09	ND<200	ND<5000	ND<10	ND<10	ND<10	ND<10	ND<10	1.8	2.0	87	ND<500	2.4
MW-1AR												
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.6	--	--	--	--	--
MW-1BR												
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	--	--	--	--	--
MW-2												
09/02/99	ND	ND	--	--	ND	ND	ND	--	--	--	--	--
12/14/99	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
03/14/00	1300	ND	ND	ND	ND	ND	ND	--	--	--	--	--
05/31/00	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
08/29/00	250	ND	ND	ND	ND	ND	ND	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)
MW-2 continued												
12/01/00	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
03/17/01	ND	ND	ND	ND	14.8	ND	ND	--	--	--	--	--
05/23/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
09/24/01	ND<5000	ND<50000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--	--
12/10/01	ND<500	ND<12000000	ND<25	ND<25	ND<25	ND<25	ND<25	--	--	--	--	--
03/11/02	ND<1000	ND<5000000	ND<20	ND<20	ND<20	ND<20	ND<20	--	--	--	--	--
06/07/02	ND<1000	ND<2000000	ND<25	ND<25	ND<25	ND<25	ND<25	--	--	--	--	--
09/03/02	ND<1000	ND<5000000	ND<20	ND<20	ND<20	ND<20	ND<20	--	--	--	--	--
MW-2a												
12/12/02	ND<100	ND<500000	ND<2.0	2.3	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
03/13/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
06/12/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
09/12/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
12/31/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
02/12/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
06/07/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1	--	--	--	--	--
09/17/04	6.7	ND<50	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	--
12/11/04	ND<5.0	ND<50	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	--
03/15/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/17/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
07/27/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)
MW-2A continued												
11/22/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/23/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/08/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/16/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/15/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/26/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/09	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	17	--	--	110	ND<1.0
MW-3												
09/02/99	ND	ND	--	--	ND	ND	ND	--	--	--	--	--
03/11/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/17/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
07/27/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/22/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/23/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/08/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)
MW-3 continued												
05/16/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/15/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/26/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/09	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	3.2	--	--	ND<100	ND<1.0
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
MW-4												
09/02/99	ND	ND	--	--	ND	ND	ND	--	--	--	--	--
12/10/01	ND<290	ND<7100000	ND<14	ND<14	ND<14	ND<14	ND<14	--	--	--	--	--
12/12/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
09/12/03	--	ND<500	--	--	--	--	--	--	--	--	--	--
09/17/04	ND<5.0	ND<50	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	--
12/11/04	ND<25	ND<250	--	--	ND<5.0	ND<2.5	ND<2.5	--	--	--	--	--
03/11/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/17/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
07/27/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/22/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/23/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/08/08	ND<10	290	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)
MW-4 continued												
05/16/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/15/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/26/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/09	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	1.7	--	--	ND<100	3.1
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
MW-5												
09/12/03	--	ND<500	--	--	--	--	--	--	--	--	--	--
03/11/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/17/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
07/27/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/06	59	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/22/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/23/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/08/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/16/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/15/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/26/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/09	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	4.5	--	--	ND<100	ND<1.0
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--

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ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)
MW-6												
03/17/01	ND	ND	ND	219	ND	ND	ND	--	--	--	--	--
09/24/01	ND<100	ND<1000000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
12/10/01	ND<500	ND<12000000	ND<25	ND<25	ND<25	ND<25	ND<25	--	--	--	--	--
03/11/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
12/12/02	ND<10000	ND<50000000	ND<200	ND<200	ND<200	ND<200	ND<200	--	--	--	--	--
03/13/03	ND<5000	ND<25000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--	--
06/12/03	ND<2000	ND<10000000	ND<40	ND<40	ND<40	ND<40	ND<40	--	--	--	--	--
09/12/03	--	ND<2500	--	--	--	--	--	--	--	--	--	--
02/12/04	ND<2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40	--	--	--	--	--
06/07/04	ND<200	ND<8000	ND<5	ND<5	ND<10	ND<10	ND<10	--	--	--	--	--
09/17/04	ND<100	ND<1000	--	--	ND<20	ND<10	ND<10	--	--	--	--	--
12/11/04	ND<100	ND<1000	--	--	ND<20	ND<10	ND<10	--	--	--	--	--
03/11/05	ND<100	ND<1000	--	--	ND<10	ND<10	ND<10	--	--	--	--	--
05/17/05	ND<100	ND<1000	--	--	ND<10	ND<10	ND<10	--	--	--	--	--
07/27/05	ND<100	ND<1000	--	--	ND<10	ND<10	ND<10	--	--	--	--	--
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	1.0	--	--	--	--	--
02/24/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	0.68	--	--	--	--	--
05/30/06	ND<250	ND<6200	--	--	ND<12	ND<12	ND<12	--	--	--	--	--
08/30/06	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--
11/22/06	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--
02/23/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	0.52	--	--	--	--	--
02/08/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)
MW-6 continued												
05/16/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
08/15/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/26/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/24/09	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50	2.7	--	--	ND<100	1.2
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
MW-7												
05/28/09	150	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--	--
MW-8												
05/28/09	36	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.7	9.9	ND<2.0	140	ND<1000	280
MW-9												
05/28/09	40	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--	--
MW-10												
05/28/09	39	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.6	2.4	2.0	ND<10	150	280
MW-11												
05/28/09	140	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.4	--	--	--	--	--

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

Date Sampled	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (µmhos)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
MW-1										
02/24/09	500	--	18	--	--	--	4.63	3.22	57	59
05/28/09	550	9.9	25	8.6	130	463	0.80	2.95	119	171
MW-1AR										
05/28/09	--	--	--	--	--	--	1.72	0.95	144	177
MW-1BR										
05/28/09	--	--	--	--	--	--	0.61	1.37	145	165
MW-2A										
02/24/09	130	--	87	--	--	--	3.38	4.44	50	34
MW-3										
02/24/09	1100	--	130	--	--	--	5.01	2.30	46	49
05/28/09	--	--	--	--	--	--	0.61	4.03	141	85
MW-4										
02/24/09	250	--	130	--	--	--	6.15	4.27	61	64
05/28/09	--	--	--	--	--	--	3.68	3.76	141	55
MW-5										
02/24/09	720	--	64	--	--	--	5.65	2.58	27	34
05/28/09	--	--	--	--	--	--	1.71	4.32	138	94
MW-6										
02/24/09	2300	--	85	--	--	--	3.40	1.29	68	67
05/28/09	--	--	--	--	--	--	1.06	1.85	142	56
MW-7										
05/28/09	--	--	--	--	--	--	1.24	0.63	160	124
MW-8										

TRC

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

Date Sampled	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (µmhos)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
MW-8 continued										
05/28/09	830	12	130	9.0	124	923	2.22	1.38	146	68
MW-10										
05/28/09	350	9.1	30	7.1	139	661	0.30	1.76	151	156
MW-11										
05/28/09	--	--	--	--	--	--	0.22	0.80	1.56	147

COORDINATED EVENT DATA

WELL CONCENTRATIONS
Shell Service Station
1601 Webster Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-2	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.73	7.60	NA	12.13	NA
S-2	11/22/2005	996	0.630	0.500	0.500	3.10	406	<0.500	<0.500	0.570	18.0	NA	NA	NA	19.73	7.70	NA	12.03	NA
S-2	2/24/2006	<50 b	<0.50	<0.50	<0.50	<0.50	2.0	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	19.73	6.29	NA	13.44	NA
S-2	5/30/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.73	6.14	NA	13.59	NA
S-2	8/30/2006	420	<0.500	<0.500	<0.500	<0.500	4.42	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.73	7.18	NA	12.55	NA
S-2	11/22/2006	110	<0.50	<0.50	<0.50	<1.0	62	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	19.73	7.55	NA	12.18	NA
S-2	2/23/2007	140	<0.50	<0.50	<0.50	<1.0	110	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	19.73	6.77	NA	12.96	NA
S-2	5/18/2007	<50 h	<0.50	<1.0	<1.0	<1.0	18	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	7.02	NA	12.71	NA
S-2	8/10/2007	<50 h	<0.50	<1.0	<1.0	<1.0	40	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	7.65	NA	12.08	NA
S-2	11/9/2007	130 h,i	<0.50	<1.0	<1.0	<1.0	190	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	7.87	NA	11.86	NA
S-2	2/8/2008	83 h,i	<1.0	<2.0	<2.0	<2.0	180	<4.0	<4.0	<4.0	<20	NA	NA	NA	19.73	6.52	NA	13.21	NA
S-2	5/16/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	7.30	NA	12.43	NA
S-2	8/15/2008	<50	<0.50	<1.0	<1.0	<1.0	7.1	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	8.38	NA	11.35	NA
S-2	11/26/2008	<50	<0.50	<1.0	<1.0	<1.0	32	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	9.13	NA	10.60	NA
S-2	2/27/2009	90	<0.50	<1.0	<1.0	<1.0	85	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	7.05	NA	12.68	NA
S-2	**5/28/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**8.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**19.73**	**6.93**	**NA**	**12.80**	**NA**
S-3	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.14	7.01	NA	12.13	NA
S-3	11/22/2005	3,900	<0.500	<0.500	<0.500	0.900	3,730	<0.500	<0.500	3.44	26.0	NA	NA	NA	19.14	7.15	NA	11.99	NA
S-3	2/24/2006	580 b	<0.50	<0.50	<0.50	<0.50	360	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	19.14	5.95	NA	13.19	NA
S-3	5/30/2006	<50.0	<0.500	<0.500	<0.500	0.510	52.2	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.14	5.85	NA	13.29	NA
S-3	8/30/2006	2,910	<0.500	<0.500	<0.500	<0.500	882	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.14	6.71	NA	12.43	NA
S-3	11/22/2006	240	<0.50	<0.50	<0.50	<1.0	150	<2.0	<2.0	<2.0	30	NA	NA	NA	19.14	7.05	NA	12.09	NA
S-3	2/23/2007	78	<0.50	<0.50	<0.50	<1.0	78	<2.0	<2.0	<2.0	5.4	NA	NA	NA	19.14	6.30	NA	12.84	NA
S-3	5/18/2007	120 h,i	<0.50	<1.0	<1.0	<1.0	150	<2.0	<2.0	<2.0	73	NA	NA	NA	19.14	6.58	NA	12.56	NA
S-3	8/10/2007	<50 h	<1.0	<2.0	<2.0	<2.0	200	<4.0	<4.0	<4.0	21	NA	NA	NA	19.14	7.09	NA	12.05	NA
S-3	11/9/2007	69 h,i	<0.50	<1.0	<1.0	<1.0	100	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.14	7.28	NA	11.86	NA
S-3	2/8/2008	<50 h	<0.50	<1.0	<1.0	<1.0	8.5	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.14	6.06	NA	13.08	NA
S-3	5/16/2008	71	<0.50	<1.0	<1.0	<1.0	100	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.14	6.84	NA	12.30	NA
S-3	8/15/2008	<50	<0.50	<1.0	<1.0	<1.0	9.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.14	7.83	NA	11.31	NA
S-3	11/26/2008	<50	0.53	<1.0	<1.0	1.5	12	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.14	8.70	NA	10.44	NA
S-3	2/27/2009	<50	<0.50	<1.0	<1.0	<1.0	3.2	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.14	6.97	NA	12.17	NA
S-3	**5/28/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**19.14**	**6.41**	**NA**	**12.73**	**NA**

WELL CONCENTRATIONS
Shell Service Station
1601 Webster Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-4	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.16	6.00	NA	12.16	NA
S-4	11/22/2005	4,570	<0.500	<0.500	<0.500	0.660	3,450	<0.500	<0.500	3.57	26.0	NA	NA	NA	18.16	6.10	NA	12.06	NA
S-4	2/24/2006	2,200 b	<0.50	<0.50	<0.50	<0.50	1,400	<0.50	<0.50	1.4	13 c	NA	NA	NA	18.16	5.09	NA	13.07	NA
S-4	5/30/2006	1,100	<0.500	<0.500	<0.500	<0.500	1,060	<0.500	<0.500	1.04	87.5	NA	NA	NA	18.16	5.00	NA	13.16	NA
S-4	8/30/2006	3,170	<0.500	<0.500	<0.500	<0.500	1,000	<0.500	<0.500	0.850	120	NA	NA	NA	18.16	5.81	NA	12.35	NA
S-4	11/22/2006	520	<0.50	<0.50	<0.50	<1.0	480	<2.0	<2.0	<2.0	5.2	NA	NA	NA	18.16	5.93	NA	12.23	NA
S-4	2/23/2007	180	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	9.6	NA	NA	NA	18.16	5.40	NA	12.76	NA
S-4	5/18/2007	220 h,i	<2.5	<5.0	<5.0	2.5 j	420	<10	<10	<10	<50	NA	NA	NA	18.16	5.62	NA	12.54	NA
S-4	8/10/2007	98 h,i	<2.5	<5.0	<5.0	<5.0	540	<10	<10	<10	29 j	NA	NA	NA	18.16	6.00	NA	12.16	NA
S-4	11/9/2007	190 h,i	<2.5	<5.0	<5.0	<5.0	350	<10	<10	<10	<50	NA	NA	NA	18.16	6.20	NA	11.96	NA
S-4	2/8/2008	<50 h	<0.50	<1.0	<1.0	<1.0	13	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.16	5.47	NA	12.69	NA
S-4	5/16/2008	87	<0.50	<1.0	<1.0	<1.0	120	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.16	6.00	NA	12.16	NA
S-4	8/15/2008	<50	<0.50	<1.0	<1.0	<1.0	42	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.16	6.85	NA	11.31	NA
S-4	11/26/2008	140	<0.50	<1.0	<1.0	<1.0	140	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.16	7.62	NA	10.54	NA
S-4	2/27/2009	56	<0.50	<1.0	<1.0	<1.0	43	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.16	5.35	NA	12.81	NA
S-4	**5/28/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**12**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**18.16**	**5.40**	**NA**	**12.76**	**NA**
S-4B	8/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.78	6.14	NA	12.64	NA
S-4B	8/30/2006	3,630	<0.500	<0.500	5.32	<0.500	1,130	<0.500	<0.500	1.47	643	NA	NA	NA	18.78	6.32	NA	12.46	NA
S-4B	11/22/2006	620	<0.50	<0.50	0.66	<1.0	580	<2.0	<2.0	<2.0	680	NA	NA	NA	18.78	6.46	NA	12.32	NA
S-4B	2/23/2007	230	<1.0	<1.0	<1.0	<2.0	190	<4.0	<4.0	<4.0	450	NA	NA	NA	18.78	6.64	NA	12.14	NA
S-4B	5/18/2007	200 h	<0.50	<1.0	<1.0	<1.0	130	<2.0	<2.0	<2.0	360	NA	NA	NA	18.78	6.19	NA	12.59	NA
S-4B	8/10/2007	150 h	0.47 j	<1.0	<1.0	<1.0	87	<2.0	<2.0	<2.0	230	NA	NA	NA	18.78	6.48	NA	12.30	NA
S-4B	11/9/2007	<50 h	<0.50	<1.0	<1.0	<1.0	32	<2.0	<2.0	<2.0	67	NA	NA	NA	18.78	6.59	NA	12.19	NA
S-4B	2/8/2008	<50 h	<0.50	<1.0	<1.0	<1.0	5.3	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.78	6.12	NA	12.66	NA
S-4B	5/16/2008	<50	<0.50	<1.0	<1.0	<1.0	2.2	<2.0	<2.0	<2.0	15	NA	NA	NA	18.78	6.45	NA	12.33	NA
S-4B	8/15/2008	<50	<0.50	<1.0	<1.0	<1.0	1.4	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.78	6.90	NA	11.88	NA
S-4B	11/26/2008	<50	<0.50	<1.0	<1.0	<1.0	2.5	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.78	8.19	NA	10.59	NA
S-4B	2/27/2009	<50	<0.50	<1.0	<1.0	<1.0	1.4	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.78	6.03	NA	12.75	NA
S-4B	**5/28/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**2.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**18.78**	**6.01**	**NA**	**12.77**	**NA**
S-5	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.68	6.33	NA	12.35	NA

WELL CONCENTRATIONS
Shell Service Station
1601 Webster Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-5	11/22/2005	1,010	0.900	<0.500	1.79	4.91	302	<0.500	<0.500	<0.500	397	NA	NA	NA	18.68	6.44	NA	12.24	NA
S-5	2/24/2006	<50 b	<0.50	<0.50	<0.50	<0.50	19	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	18.68	5.44	NA	13.24	NA
S-5	5/30/2006	2,000	4.13	0.670	<0.500	3.28	143	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	18.68	5.33	NA	13.35	NA
S-5	8/30/2006	1,380	<0.500	<0.500	1.43	<0.500	211	<0.500	<0.500	<0.500	105	NA	NA	NA	18.68	6.16	NA	12.52	NA
S-5	11/22/2006	82	<0.50	<0.50	<0.50	<1.0	28	<2.0	<2.0	<2.0	13	NA	NA	NA	18.68	6.28	NA	12.40	NA
S-5	2/23/2007	<50	<0.50	<0.50	<0.50	<1.0	1.2	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	18.68	5.68	NA	13.00	NA
S-5	5/18/2007	<50 h,i	<0.50	<1.0	<1.0	<1.0	2.6	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	5.91	NA	12.77	NA
S-5	8/10/2007	<50 h	<0.50	<1.0	<1.0	<1.0	1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	6.36	NA	12.32	NA
S-5	11/9/2007	<50 h	<0.50	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	6.47	NA	12.21	NA
S-5	2/8/2008	<50 h	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	5.52	NA	13.16	NA
S-5	5/16/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	6.22	NA	12.46	NA
S-5	8/15/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	7.26	NA	11.42	NA
S-5	11/26/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	8.03	NA	10.65	NA
S-5	2/27/2009	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	5.83	NA	12.85	NA
S-5	**5/28/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**18.68**	**5.73**	**NA**	**12.95**	**NA**
S-6	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.32	6.36	NA	12.96	NA
S-6	11/22/2005	15,800	5.14	0.690	32.1	934	<0.500	<0.500	<0.500	<0.500	14.2	NA	NA	NA	19.32	6.53	NA	12.79	NA
S-6	1/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.32	5.50	NA	13.82	NA
S-6	2/24/2006	7,900 b	4.4	<1.5	260	380	<1.5	<1.5	<1.5	<1.5	<7.0	NA	NA	NA	19.32	5.76	NA	13.56	NA
S-6	5/30/2006	4,170	4.98	<0.500	76.6	44.2	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.32	5.68	NA	13.64	NA
S-6	8/30/2006	16,400	10.7	<0.500	353	292	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.32	6.38	NA	12.94	NA
S-6	11/22/2006	6,900	7.7	<2.5	250	450	<2.5	<10	<10	<10	<25	NA	NA	NA	19.32	6.62	NA	12.70	NA
S-6	2/23/2007	7,900	4.4	<2.5	400	940	<2.5	<10	<10	<10	<25	NA	NA	NA	19.32	6.06	NA	13.26	NA
S-6	5/18/2007	2,600 h	3.1	<1.0	86	147.3	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.12	NA	13.20	NA
S-6	8/10/2007	3,100 h	3.5	0.28 j	110	202	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.60	NA	12.72	NA
S-6	11/9/2007	3,700 h	2.1	0.34 j	160	335	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.80	NA	12.52	NA
S-6	2/8/2008	2,600 h	2.7	<1.0	72	156.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.11	NA	13.21	NA
S-6	5/16/2008	350	<0.50	<1.0	8.4	5.3	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.60	NA	12.72	NA
S-6	8/15/2008	3,600	0.99	<1.0	100	164.9	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	7.70	NA	11.62	NA
S-6	11/26/2008	1,500	2.9	<1.0	13	3.1	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	8.41	NA	10.91	NA
S-6	2/27/2009	2,800	4.3	<1.0	17	23	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.22	NA	13.10	NA
S-6	**5/28/2009**	**570**	**0.74**	**<1.0**	**3.1**	**1.3**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**19.32**	**6.10**	**NA**	**13.22**	**NA**

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-7	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.44	6.76	NA	12.68	NA
S-7	11/22/2005	51,100	2,680	2,980	969	6,360	1.49	<0.500	<0.500	<0.500	53.3	NA	NA	NA	19.44	6.88	NA	12.56	NA
S-7	2/24/2006	22,000 b/25,000 d	1,700	1,200	1,200	2,800	<2.5	<2.5	<2.5	<2.5	58	NA	NA	NA	19.44	5.73	NA	13.71	NA
S-7	5/30/2006	35,600	1,720	641	1,600	3,630	2.83	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.44	5.61	NA	13.83	NA
S-7	8/30/2006	83,900	5,060	62.5	1,640	4,010	2.38	<0.500	<0.500	<0.500	43.4	NA	NA	NA	19.44	6.43	NA	13.01	NA
S-7	11/22/2006	13,000	4,300	27	710	1,900	<2.5	<10	<10	<10	54	NA	NA	NA	19.44	6.68	NA	12.76	NA
S-7	2/23/2007	15,000	2,000	43	1,100	3,300	<12	<50	<50	<50	<120	NA	NA	NA	19.44	5.82	NA	13.62	NA
S-7	5/18/2007	6,100 h	3,900	22 j	520	2,010	<50	<100	<100	<100	<500	NA	NA	NA	19.44	6.20	NA	13.24	NA
S-7	8/10/2007	14,000 h	4,900	19 j	670	2,046 j	<50	<100	<100	<100	<500	NA	NA	NA	19.44	6.74	NA	12.70	NA
S-7	11/9/2007	16,000 h	4,400	21 j	550	2,052	<50	<100	<100	<100	<500	NA	NA	NA	19.44	6.93	NA	12.51	NA
S-7	2/8/2008	2,400 h	160	<2.0	70	160	<2.0	<4.0	<4.0	<4.0	<20	NA	NA	NA	19.44	6.23	NA	13.21	NA
S-7	5/16/2008	6,200	1,200	21	320	736.9	<2.0	<4.0	<4.0	<4.0	<20	NA	NA	NA	19.44	6.62	NA	12.82	NA
S-7	8/15/2008	15,000	4,500	19	450	1,300	<10	<20	<20	<20	<100	NA	NA	NA	19.44	7.81	NA	11.63	NA
S-7	11/26/2008	9,300	3,200	<25	77	250	<25	<50	<50	<50	<250	NA	NA	NA	19.44	8.53	NA	10.91	NA
S-7	2/27/2009	3,900	900	<25	49	160	<25	<50	<50	<50	<250	NA	NA	NA	19.44	6.27	NA	13.17	NA
S-7	**5/28/2009**	**7,100**	**1,200**	**<10**	**81**	**600**	**<10**	**<20**	**<20**	**<20**	**<100**	**NA**	**NA**	**NA**	**19.44**	**6.18**	**NA**	**13.26**	**NA**
S-8	8/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.11	7.02	NA	13.09	NA
S-8	8/30/2006	90,600	5,150	28.2	3,230	4,450	4.30	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	20.11	7.19	NA	12.92	NA
S-8	11/22/2006	41,000	4,900	58	3,300	7,200	2.6	<10	<10	<10	<25	NA	NA	NA	20.11	7.48	NA	12.63	NA
S-8	2/23/2007	28,000	2,900	28	2,900	4,900	<25	<100	<100	<100	<250	NA	NA	NA	20.11	6.73	NA	13.38	NA
S-8	5/18/2007	24,000 h	4,400	33 j	3,800	4,470	<50	<100	<100	<100	<500	NA	NA	NA	20.11	6.98	NA	13.13	NA
S-8	8/10/2007	22,000 h	5,000	30 j	3,100	3,660	<50	<100	<100	<100	<500	NA	NA	NA	20.11	7.57	NA	12.54	NA
S-8	11/9/2007	22,000 h	4,600	24 j	3,000	2,770	<50	<100	<100	<100	<500	NA	NA	NA	20.11	7.80	NA	12.31	NA
S-8	2/8/2008	11,000 h	5,900	<50	410	310	<50	<100	<100	<100	<500	NA	NA	NA	20.11	6.55	NA	13.56	NA
S-8	5/16/2008	20,000	1,600	32	2,300	2,136	<20	<40	<40	<40	<200	NA	NA	NA	20.11	7.30	NA	12.81	NA
S-8	8/15/2008	26,000	2,400	20	4,900	2,432	<20	<40	<40	<40	<200	NA	NA	NA	20.11	8.60	NA	11.51	NA
S-8	11/26/2008	10,000	890	6.6	790	302	<5.0	<10	<10	<10	<50	NA	NA	NA	20.11	9.20	NA	10.91	NA
S-8	2/27/2009	770	30	<1.0	9.9	6.0	<1.0	<2.0	<2.0	<2.0	12	NA	NA	NA	20.11	7.04	NA	13.07	NA
S-8	**5/28/2009**	**5,800**	**620**	**3.1**	**390**	**380**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**40**	**NA**	**NA**	**NA**	**20.11**	**6.91**	**NA**	**13.20**	**NA**
S-9	8/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.60	6.93	NA	12.67	NA

WELL CONCENTRATIONS
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-9	8/30/2006	162,000	3,620	5,040	3,810	22,500	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.60	6.52	NA	13.08	NA
S-9	11/22/2006	47,000	2,100	840	3,000	12,000	<2.5	<10	<10	<10	<25	NA	NA	NA	19.60	6.78	NA	12.82	NA
S-9	2/23/2007	18,000	890	120	1,800	3,600	<12	<50	<50	<50	<120	NA	NA	NA	19.60	6.13	NA	13.47	NA
S-9	5/18/2007	22,000 h	1,300	630	2,400	7,300	<50	<100	<100	<100	<500	NA	NA	NA	19.60	6.35	NA	13.25	NA
S-9	8/10/2007	36,000 h	2,600	920	4,200	14,900	<50	<100	<100	<100	<500	NA	NA	NA	19.60	6.86	NA	12.74	NA
S-9	11/9/2007	34,000 h	2,100	320	3,700	12,000	<50	<100	<100	<100	<500	NA	NA	NA	19.60	7.09	NA	12.51	NA
S-9	2/8/2008	7,400 h	410	51	1,100	1,620	<10	<20	<20	<20	<100	NA	NA	NA	19.60	6.00	NA	13.60	NA
S-9	5/16/2008	19,000	910	230	1,600	4,200	<10	<20	<20	<20	<100	NA	NA	NA	19.60	6.67	NA	12.93	NA
S-9	8/15/2008	65,000	2,600	540	5,200	19,000	<10	<20	<20	<20	<100	NA	NA	NA	19.60	7.93	NA	11.67	NA
S-9	11/26/2008	18,000	910	<100	2,000	3,340	<100	<200	<200	<200	<1,000	NA	NA	NA	19.60	8.60	NA	11.00	NA
S-9	2/27/2009	1,000	55	2.3	100	61	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.60	6.35	NA	13.25	NA
S-9	**5/28/2009**	**9,700**	**410**	**120**	**810**	**1,400**	**<10**	**<20**	**<20**	**<20**	**<100**	**NA**	**NA**	**NA**	**19.60**	**6.22**	**NA**	**13.38**	**NA**
TBW-E	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.31	NA	NA	NA
TBW-E	12/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.01	NA	NA	NA
TBW-E	12/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.32	NA	NA	NA
TBW-E	12/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.55	NA	NA	NA
TBW-E	12/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.95	NA	NA	NA
TBW-E	12/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.47	NA	NA	NA
TBW-N	11/23/2004	83,000	640	27,000	1,700	20,000	2,300	<400	<400	<400	1,300	<100	<100	<10,000	NA	5.64	NA	NA	NA
TBW-N	12/1/2004	160,000	700	31,000	2,300	24,000	2,900	<400	<400	<400	1,200	<100	<100	<10,000	NA	6.35	NA	NA	NA
TBW-N	12/7/2004	130,000	590	29,000	2,300	24,000	2,700	<400	<400	<400	1,300	<100	<100	<10,000	NA	5.65	NA	NA	NA
TBW-N	12/15/2004	120,000	420	26,000	2,000	22,000	3,300	<400	<400	<400	<1,000	<100	<100	<10,000	NA	5.85	NA	NA	NA
TBW-N	12/23/2004	100,000	220	23,000	1,900	20,000	1,900	<400	<400	<400	<1,000	<100	<100	<10,000	NA	5.30	NA	NA	NA
TBW-N	12/27/2004	110,000	470	26,000	2,300	22,000	1,800	<400	<400	<400	<1,000	<100	<100	<10,000	NA	7.80	NA	NA	NA
TBW-N	1/17/2005	86,000	330	22,000	2,200	21,000	1,600	<400	<400	<400	1,600	<100	<100	<10,000	NA	6.59	NA	NA	NA
TBW-N	2/4/2005	97,000	290	23,000	1,800	20,000	1,900	<400	<400	<400	<1,000	<100	<100	<10,000	NA	4.50	NA	NA	NA
TBW-N	3/2/2005	94,000	360	24,000	2,000	19,000	1,200	<400	<400	<400	<1,000	<100	<100	<10,000	NA	4.11	NA	NA	NA
TBW-N	4/12/2005	27,000	130	9,300	1,100	8,700	1,400	<100	<100	<20	390	<25	<25	<2,500	NA	4.08	NA	NA	NA
TBW-N	5/13/2005	42,000	130	8,700	1,500	12,000	1,400	<100	<100	<100	440	<25	<25	<2,500	NA	4.45	NA	NA	NA
TBW-N	6/10/2005	46,000	63	5,500	1,300	11,000	500	<100	<100	<100	<250	<25	<25	<2,500	NA	4.97	NA	NA	NA
TBW-N	7/15/2005	48,000	88	8,400	1,300	9,500	660	<100	<100	<100	310	<25	<25	<2,500	NA	5.18	NA	NA	NA

WELL CONCENTRATIONS
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
TBW-N	08/17/2005 a	36,000	85	8,500	1,200	11,000	510	<200	<200	<200	<500	<50	<50	<5,000	18.08	5.28	NA	12.80	NA
TBW-N	9/15/2005	20,000	59	2,400	730	9,300	600	<40	<40	<40	500	NA	NA	<1,000	18.08	5.92	NA	12.16	NA
TBW-N	10/17/2005	59,000	58	4,900	1,200	16,000	490	<100	<100	<100	<250	<25	<25	<2,500	18.08	5.96	NA	12.12	NA
TBW-N	11/22/2005	105,000	41.3	8,750	1,550	18,300	443	<0.500	<0.500	<0.500	248	<0.500	<0.500	<50.0	18.08	5.82	NA	12.26	NA
TBW-N	12/9/2005	65,900	43.4	5,110	1,110	13,500	493	<0.500	<0.500	<0.500	259	<0.500	<0.500	<50.0	18.08	5.60	NA	12.48	NA
TBW-N	1/5/2006	80,100	33.8	4,910	1,620	19,400	410	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<50.0	18.08	4.44	NA	13.64	NA
TBW-N	2/24/2006	56,000 b/60,000 d	15	2,700	1,000	12,000	270	<15	<15	<15	180	<15	<15	<150	18.08	4.67	NA	13.41	NA
TBW-N	3/8/2006	60,200	23.4	3,820	1,370	16,500	293	<0.500	<0.500	<0.500	93.8	<0.500	<0.500	<50.0	18.08	4.18	NA	13.90	NA
TBW-N	4/13/2006	73,000	21.8	2,900	1,220	14,600	277	<0.500	<0.500	<0.500	68.5	<0.500	<0.500	<500	18.08	3.49	NA	14.59	NA
TBW-N	5/30/2006	59,300	18.7	1,170	1,800	10,200	119 e	<0.500	<0.500	<0.500	<10.0	0.860	<0.500	<50.0	18.08	4.52	NA	13.56	NA
TBW-N	6/5/2006	83,700	16.0	1,510	2,090	11,400	146 e	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<50.0	18.08	4.55	NA	13.53	NA
TBW-N	7/19/2006	80,100	16.4	632	1,550	13,900	85.7	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<50.0	18.08	4.99	NA	13.09	NA
TBW-N	8/30/2006	52,700	18.2	747	1,900	13,400	82.9	<5.00	<5.00	<5.00	<100	<5.00	<5.00	<500	18.08	5.47	NA	12.61	NA
TBW-N	9/6/2006	77,500	21.3	1,100	1,650	11,800	116	<0.500	<0.500	<0.500	12.4	<0.500	<0.500	<50.0	18.08	5.39	NA	12.69	NA
TBW-N	10/13/2006	33,000	22	1,300	1,700	27,000	160	<20	<20	<20	<50	<5.0	<5.0	<500	18.08	5.57	NA	12.51	NA
TBW-N	11/22/2006	36,000	18	680	1,200	14,000	110	<20	<20	<20	<50	<5.0	<5.0	<500	18.08	5.65	NA	12.43	NA
TBW-N	12/12/2006	34,000	<25	330	1,400	11,000	89	<25	<25	<25	<1,000	<25	<25	<5,000	18.08	5.34	NA	12.74	NA
TBW-N	1/5/2007	26,000 g	16	450	1,400	13,000 f	96	<20	<20	<20	<50	<5.0	<5.0	<500	18.08	5.23	NA	12.85	NA
TBW-N	2/23/2007	41,000	<25	400	1,500	15,000	120	<100	<100	<100	<250	<25	<25	<2,500	18.08	4.96	NA	13.12	NA
TBW-N	3/8/2007	15,000	<25	320	1,300	15,000	110	<100	<100	<100	<250	<25	<25	<2,500	18.08	4.93	NA	13.15	NA
TBW-N	4/6/2007	24,000 h	15	360	1,100	12,300	130	<10	<10	<10	<50	<2.5	NA	<500	18.08	5.07	NA	13.01	NA
TBW-N	5/18/2007	30,000 h	15 j	140	1,100	9,960	100	<100	<100	<100	<50	<25	<50	<5,000	18.08	5.25	NA	12.83	NA
TBW-N	6/11/2007	26,000 h	15 j	160	1,300	9,150	120	<100	<100	<100	<500	<25	<50	<5,000	18.08	5.33	NA	12.75	NA
TBW-N	7/3/2007	36,000 h	9.3 j	150	990	8,400	130	<100	<100	<100	<500	<25	<50	<5,000	18.08	5.46	NA	12.62	NA
TBW-N	8/10/2007	24,000 h	14	200	1,200	5,240	120	<40	<40	<40	<200	<10	<20	<2,000	18.08	5.78	NA	12.30	NA
TBW-N	9/25/2007	28,000 h	15	560	1,400	7,600	<20	<40	<40	<40	160 j	<10	<20	<2,000	18.08	6.02	NA	12.06	NA
TBW-N	11/9/2007	42,000 h	18	610	1,700	14,500	140	<50	<50	<50	<250	<12	<25	<2,500	18.08	5.91	5.90	12.18	0.01
TBW-N	2/8/2008	36,000 h	<25	450	1,400	15,100	97	<100	<100	<100	<500	<25	<50	<5,000	18.08	4.79	NA	13.29	NA
TBW-N	5/16/2008	26,000	80	99	970	5,130	130	<100	<100	<100	<500	NA	NA	NA	18.08	5.50	NA	12.58	NA
TBW-N	8/15/2008	24,000	<25	1,300	1,300	2,400	90	<100	<100	<100	<500	<25	<50	<5,000	18.08	6.59	NA	11.49	NA
TBW-N	11/26/2008	24,000	<25	140	810	5,580	52	<100	<100	<100	<500	<25	<50	<5,000	18.08	7.40	NA	10.68	NA
TBW-N	2/27/2009	22,000	<25	110	520	5,000	<50	<100	<100	<100	<500	<25	<50	<5,000	18.08	5.86	NA	12.22	NA
TBW-N	**5/28/2009**	**32,000**	**8.9**	**160**	**860**	**5,600**	**53**	**<10**	**<10**	**<10**	**160**	**NA**	**NA**	**NA**	**18.08**	**5.50**	**NA**	**12.58**	**NA**

WELL CONCENTRATIONS
Shell Service Station
1601 Webster Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
TBW-S	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.18	NA	NA	NA
TBW-S	12/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.87	NA	NA	NA
TBW-S	12/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.15	NA	NA	NA
TBW-S	12/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.38	NA	NA	NA
TBW-S	12/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.81	NA	NA	NA
TBW-S	12/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.35	NA	NA	NA
TBW-W	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.14	NA	NA	NA
TBW-W	12/1/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.86	NA	NA	NA
TBW-W	12/7/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.13	NA	NA	NA
TBW-W	12/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.37	NA	NA	NA
TBW-W	12/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.79	NA	NA	NA
TBW-W	12/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.32	NA	NA	NA

WELL CONCENTRATIONS
Shell Service Station
1601 Webster Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol or tertiary butanol, analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B
EDB = Ethylene Dibromide, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
SPH = Separate-phase hydrocarbon
GW = Groundwater
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
NA = Not applicable

WELL CONCENTRATIONS
Shell Service Station
1601 Webster Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)

Notes:

a = Extracted out of holding time.

b = Result with a carbon range of C4-C12.

c = Result may be biased slightly high. See lab report case narrative.

d = Result with a carbon range of C6-C12.

e = Secondary ion abundances were outside method requirements. Identification based on analytical judgement.

f = Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.

g = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below the acceptance limits. A low bias to sample results is indicated.

h = Analyzed by EPA Method 8015B (M).

i = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

j = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

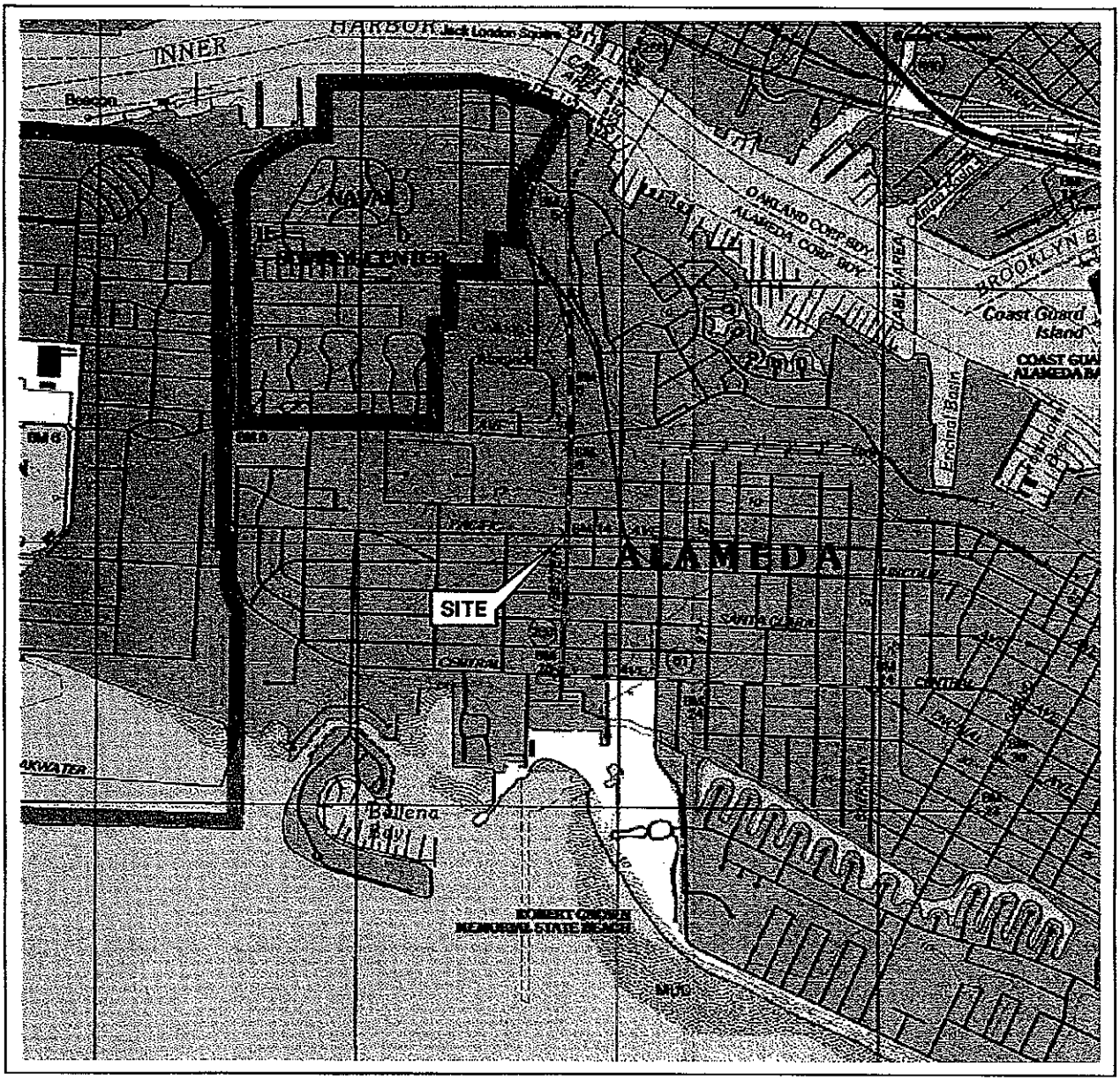
Ethanol analyzed by EPA Method 8260B.

Well TBW-N surveyed September 1, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells S-2 through S-7 surveyed on November 30, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells S-4B and S-7 through S-9 surveyed on August 17, 2006 by Virgil Chavez Land Surveying of Vallejo, CA.

FIGURES



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

SCALE 1:24,000

N

SOURCE:

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

TRC

FACILITY:

FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

VICINITY MAP

FIGURE 1

PS=1:1 L:\QMS VICINITY MAPS\0843VM.DWG Jan 19, 2009 - 2:26pm akers

MS=1:60 0843-003 L:\Graphics\DOMS NORTH-SOUTH\Dr-0003\0843\D0843-GMS11x17.dwg Jun 29, 2009 - 9:35am sakara

LEGEND

MW-11 Former 76 Monitoring Well with Groundwater Elevation (feet)

S-9 Shell Service Station Monitoring Well

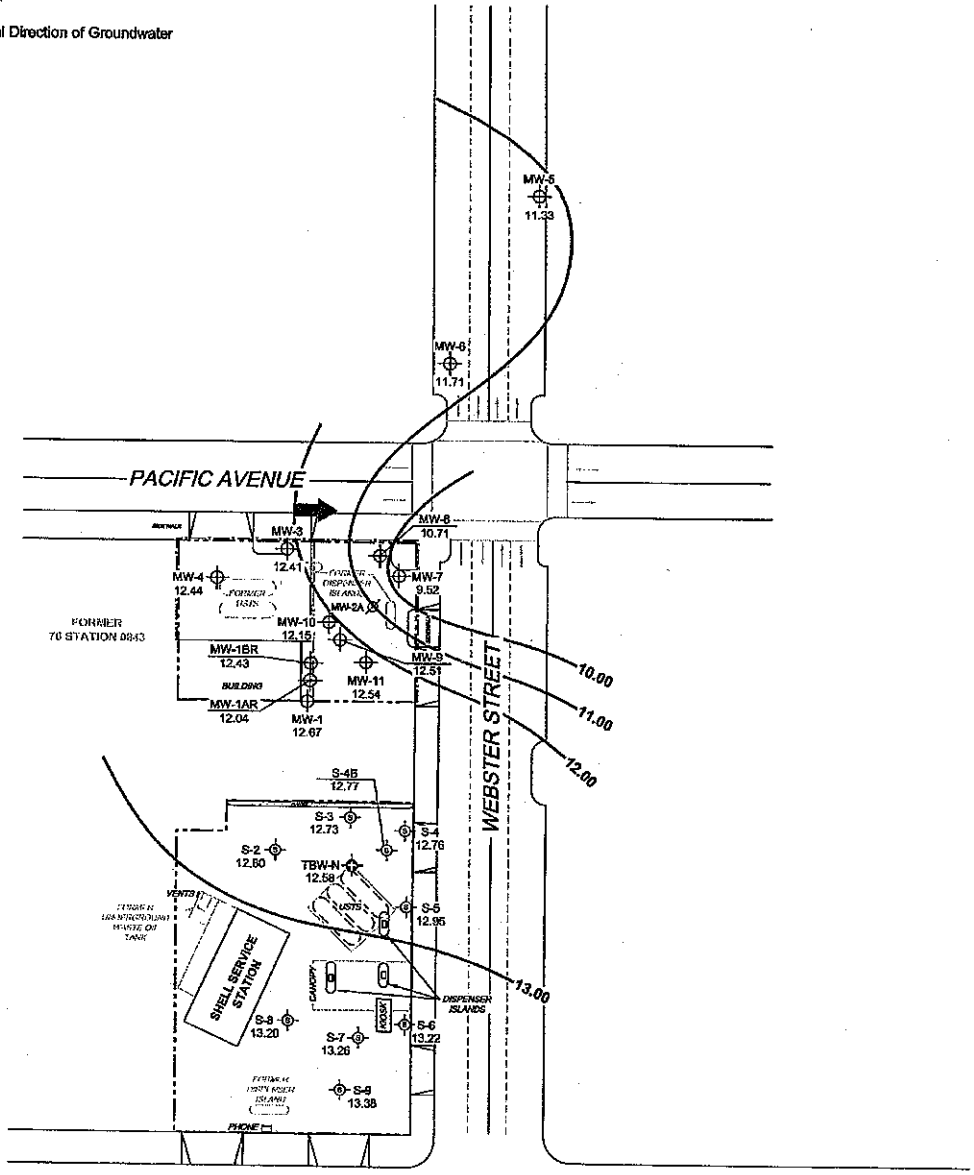
TBW-N Shell Tank Backfill Monitoring Well

MW-2A Abandoned Well

13.00 Groundwater Elevation Contour

General Direction of Groundwater Flow

N



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. Shell Service Station data provided by CRA.

SCALE (FEET) 0 60	TRC	PROJECT: 165521 FACILITY: FORMER 76 STATION 0843 1629 WEBSTER STREET ALAMEDA, CALIFORNIA	GROUNDWATER ELEVATION CONTOUR MAP May 28, 2009 FIGURE 2

MS=1:60 0843-003 L:\DGraphics\DGMS NORTH-SOUTH\dx-0000\0843+\0843-GMS11x17.dwg Jul 07, 2009 - 2:03pm eakers

LEGEND

MW-11 ⊕ Former 76 Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

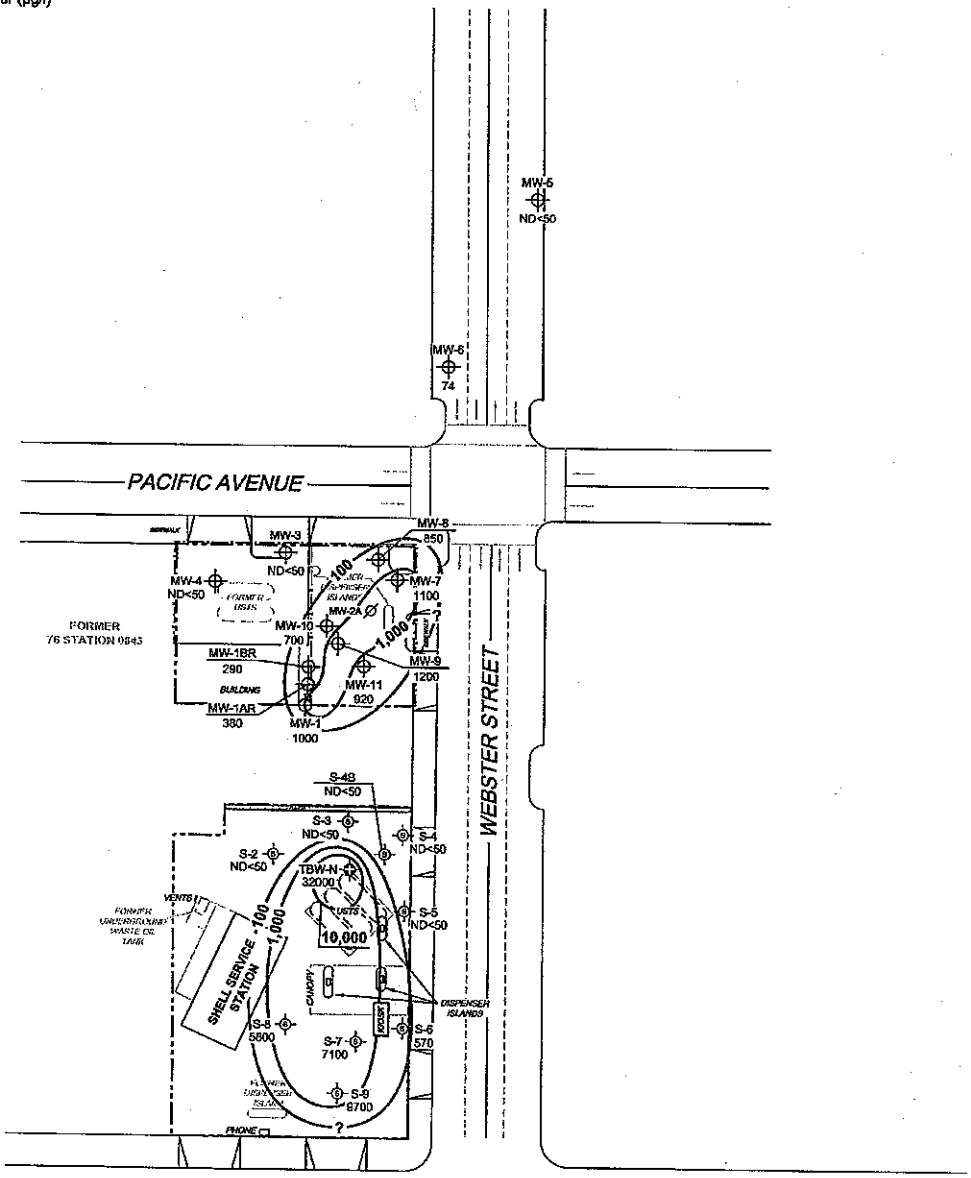
S-9 ⊕ Shell Service Station Monitoring Well

TBW-N ⊕ Shell Tank Backfill Monitoring Well

MW-2A ⊘ Abandoned Well

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

N



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank. Shell Service Station data provided by CRA.

SCALE (FEET)
0 60

TRC

PROJECT: 165521

FACILITY:
FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATION MAP
May 28, 2009

FIGURE 3

MS=1:60 0843-003 L:\DGraphics\QMS NORTH-SOUTH\Dx-0000\0843+\0843-QMS11x17.dwg Jun 29, 2009 - 8:17am aakers

LEGEND

MW-11 ⊕ Former 76 Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

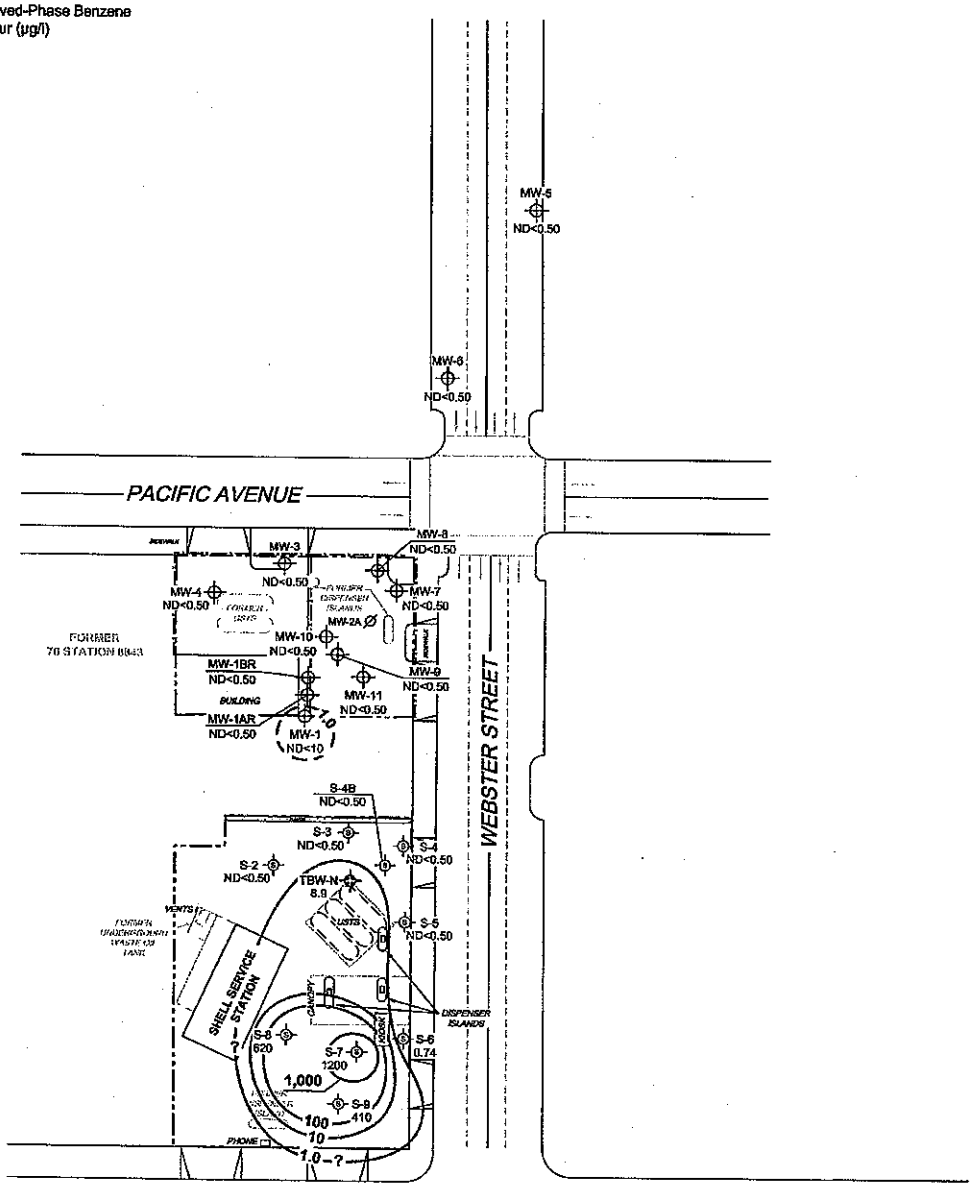
S-9 ⊕ Shell Service Station Monitoring Well

TBW-N ⊕ Shell Tank Backfill Monitoring Well

MW-2A Ø Abandoned Well

—1,000— Dissolved-Phase Benzene Contour (µg/l)

N



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. Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank. Shell Service Station data provided by CRA.

SCALE (FEET) 0 60	TRC	PROJECT: 165521 FACILITY: FORMER 76 STATION 0843 1629 WEBSTER STREET ALAMEDA, CALIFORNIA	DISSOLVED-PHASE BENZENE CONCENTRATION MAP May 28, 2009 FIGURE 4

MS=1:60 0843-003 L:\Graphics\CIMS NORTH-SOUTH\cx-0000\0843+\0843-CMS11x17.dwg Jun 29, 2009 - 9:25am aakors

LEGEND

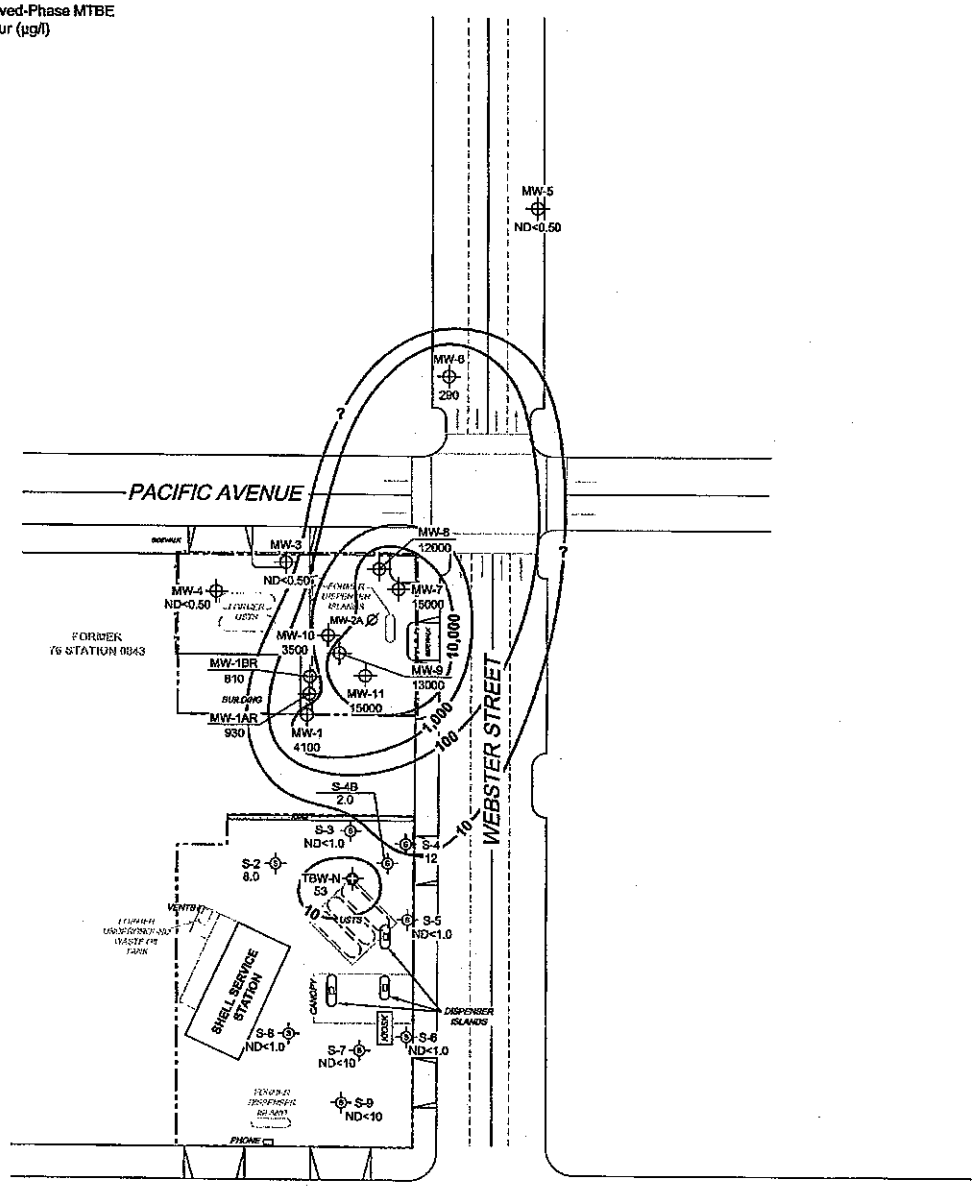
MW-11 ⊕ Former 76 Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

S-9 ⊕ Shell Service Station Monitoring Well

TBW-N ⊕ Shell Tank Backfill Monitoring Well

MW-2A Ø Abandoned Well

—10,000— 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. UST = underground storage tank. Shell Service Station data provided by CRA. Results obtained using EPA Method 8260B.

SCALE (FEET)
0 60

TRC

PROJECT: 165521

FACILITY:
FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

DISSOLVED-PHASE MTBE CONCENTRATION MAP
May 28, 2009

FIGURE 5

MS=1:60 0843-003 L:\Graphics\DOMS NORTH-SOUTH\dx-0000\0843+0843-QMS11x17.dwg Jun 28, 2009 - 9:36am salkens

LEGEND

MW-11 ⊕ Former 76 Monitoring Well with Dissolved-Phase TBA Concentration (µg/l)

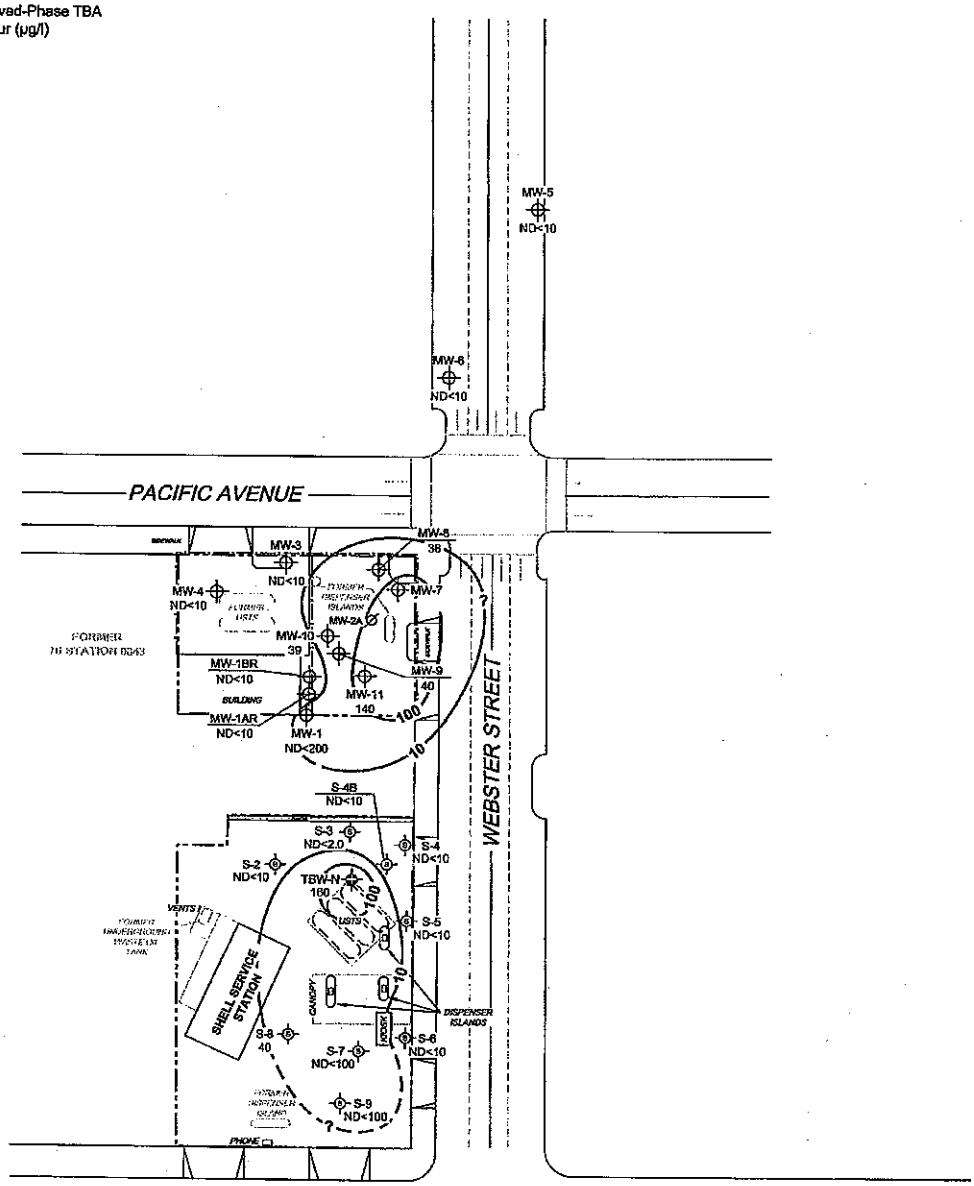
S-9 ⊕ Shell Service Station Monitoring Well

TBW-N ⊕ Shell Tank Backfill Monitoring Well

MW-2A Ø Abandoned Well

—100— Dissolved-Phase TBA Contour (µg/l)

N



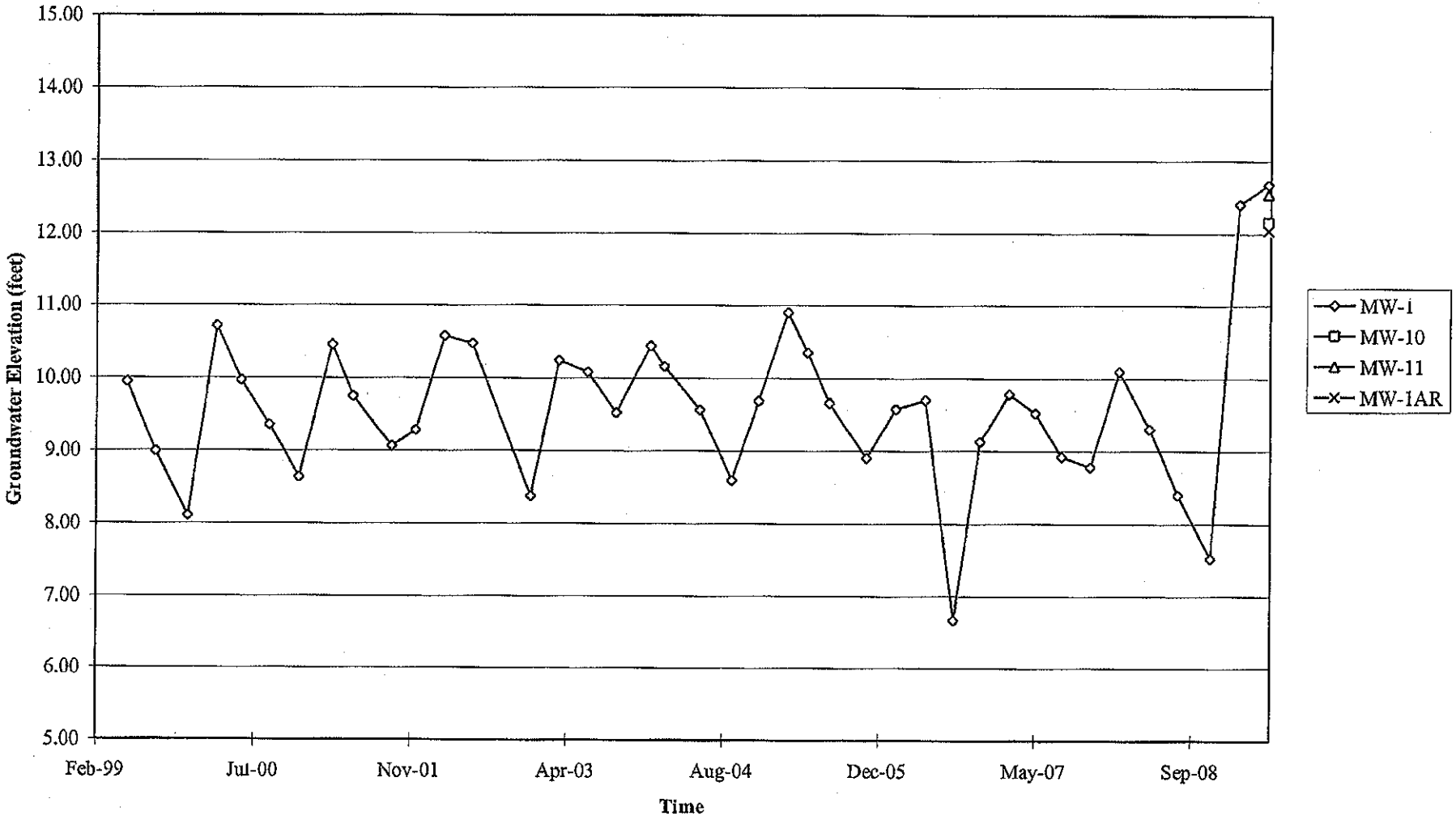
NOTES:

TBA = tertiary butyl alcohol. 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. Shell Service Station data provided by CRA. Results obtained using EPA Method 8260B.

SCALE (FEET) 0 60	TRC	PROJECT: 165521 FACILITY: FORMER 76 STATION 0843 1629 WEBSTER STREET ALAMEDA, CALIFORNIA	DISSOLVED-PHASE TBA CONCENTRATION MAP May 28, 2009 FIGURE 6

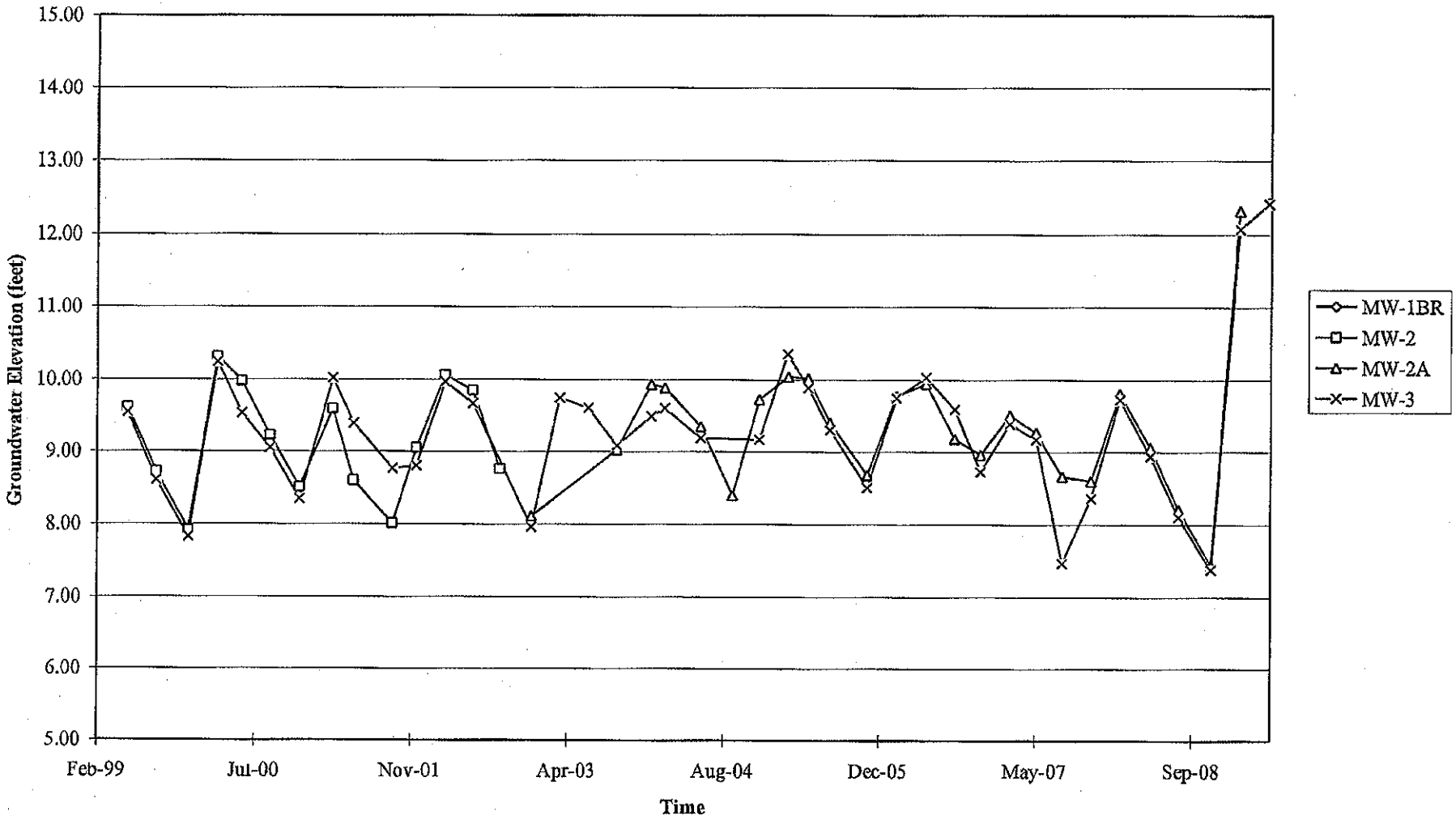
GRAPHS

Groundwater Elevations vs. Time
Former 76 Station 0843



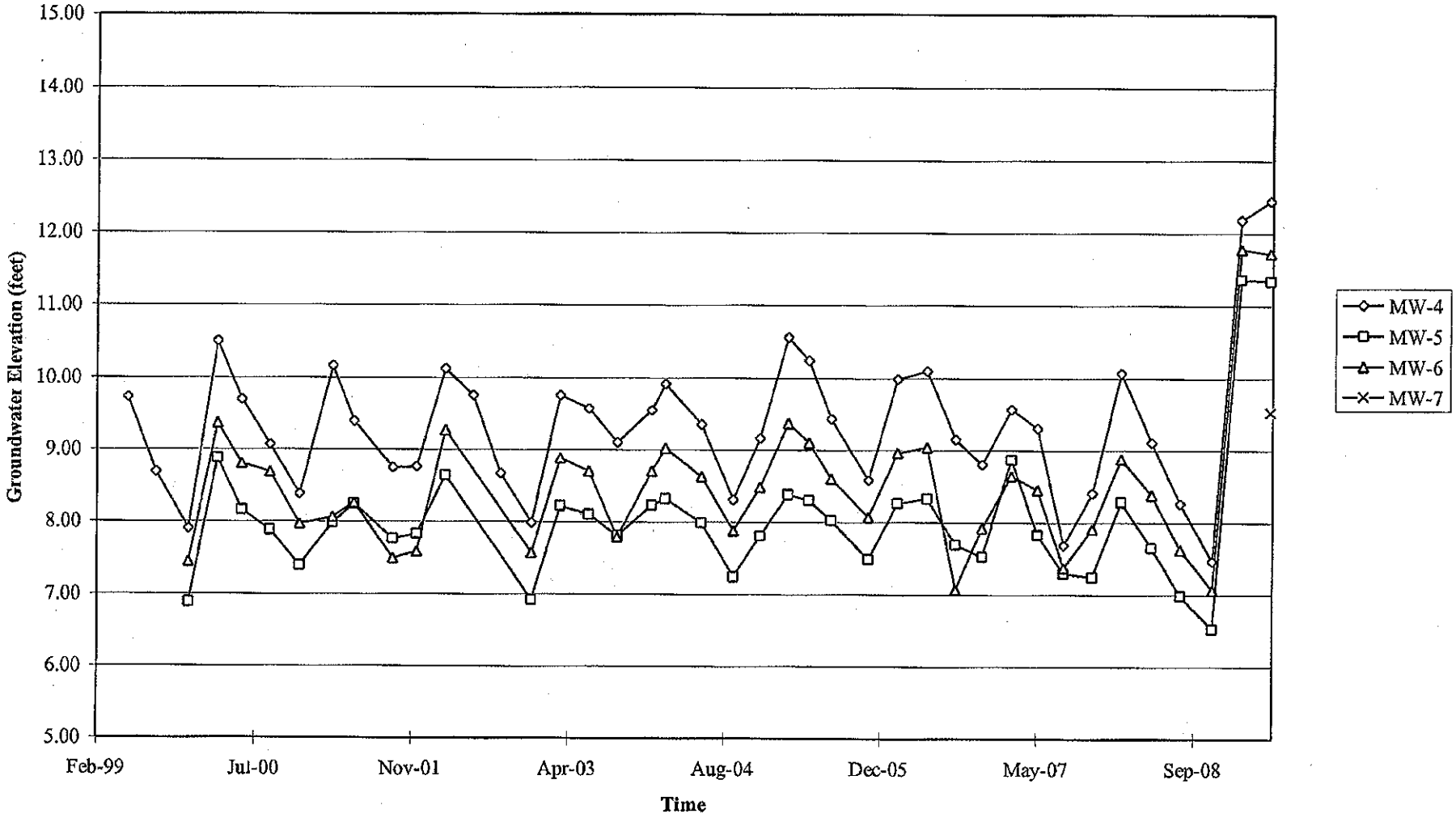
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time
Former 76 Station 0843



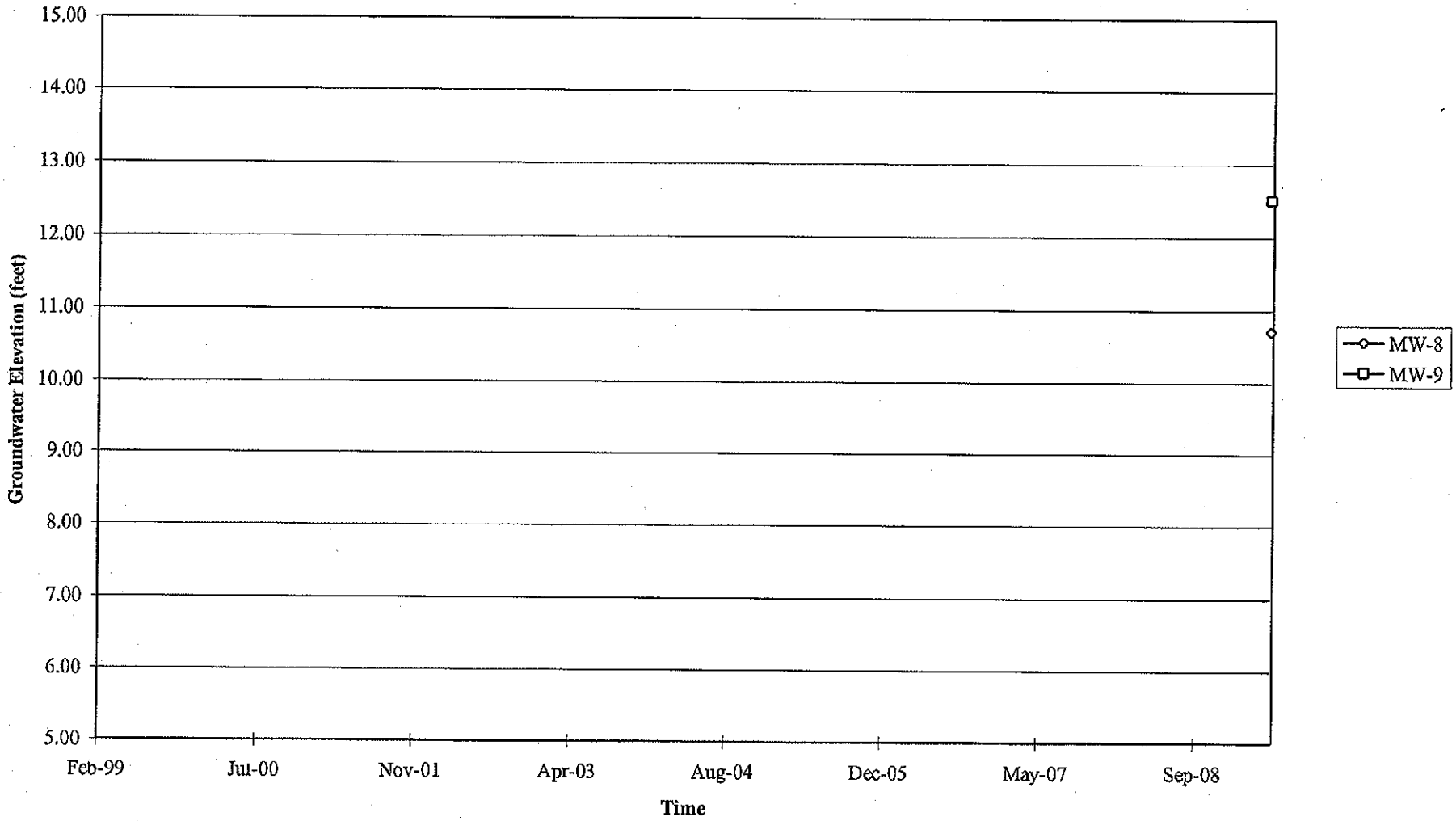
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time
Former 76 Station 0843



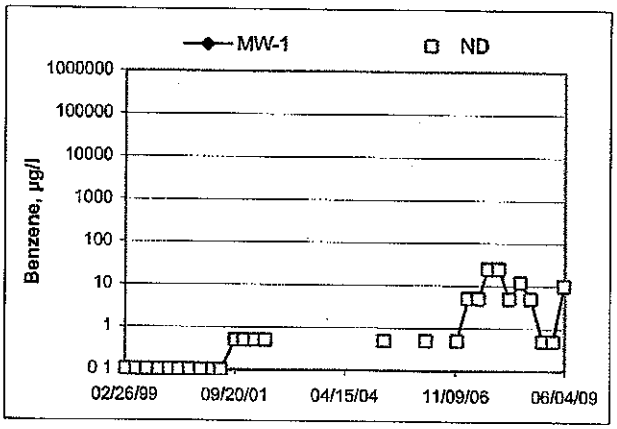
Elevations may have been corrected for apparent changes due to resurvey

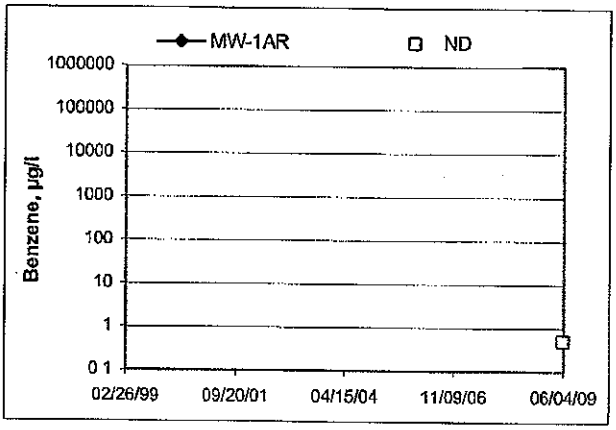
Groundwater Elevations vs. Time
Former 76 Station 0843

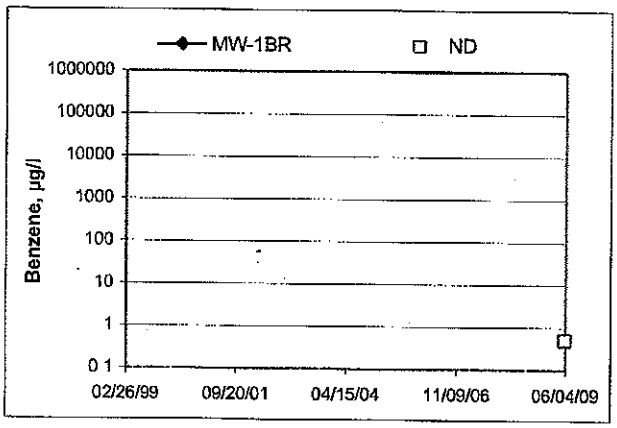


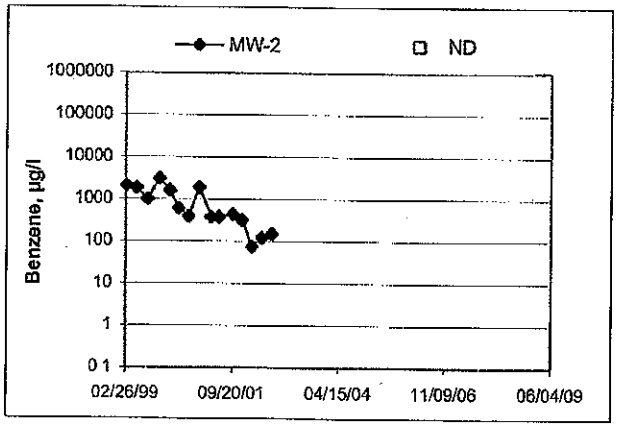
Elevations may have been corrected for apparent changes due to resurvey

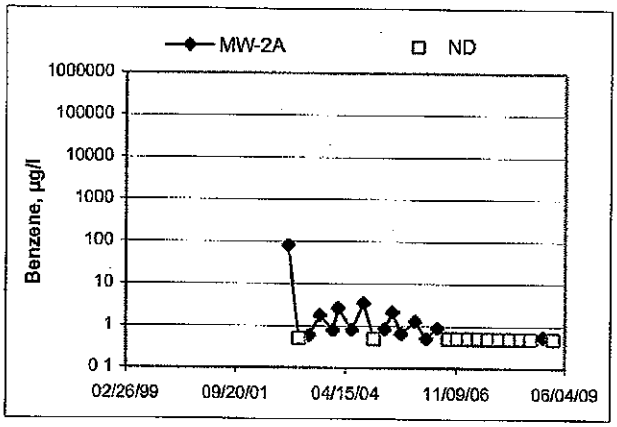
Benzene Concentrations vs Time
Former 76 Station 0843

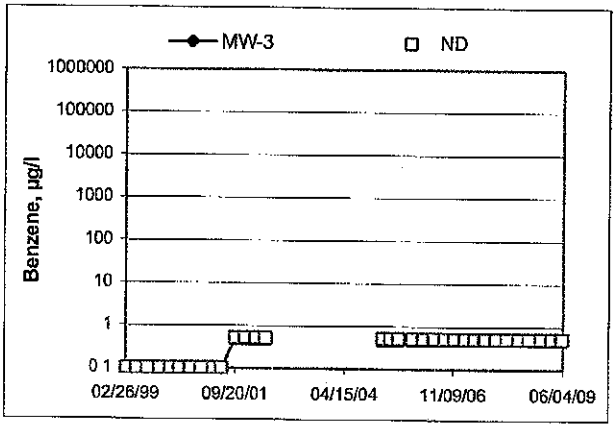


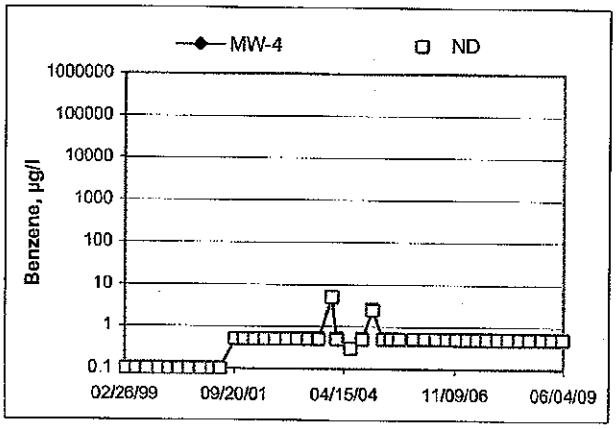


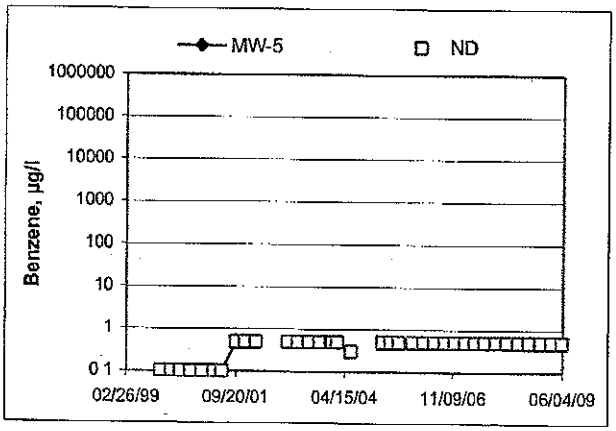




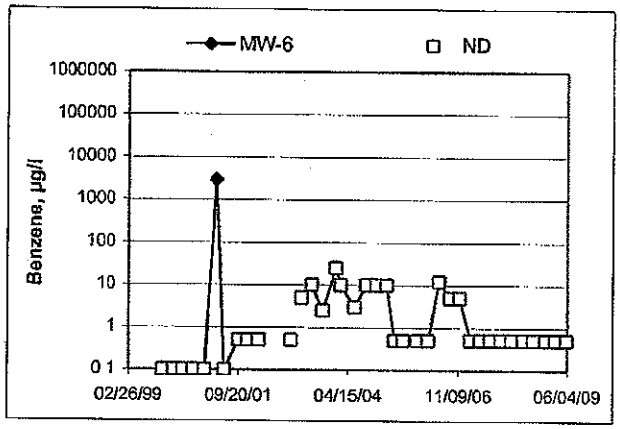


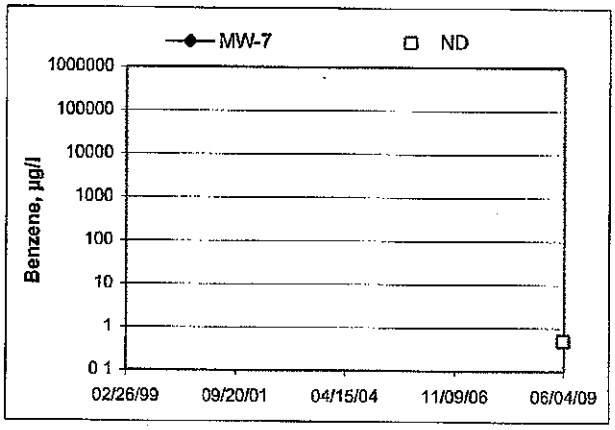


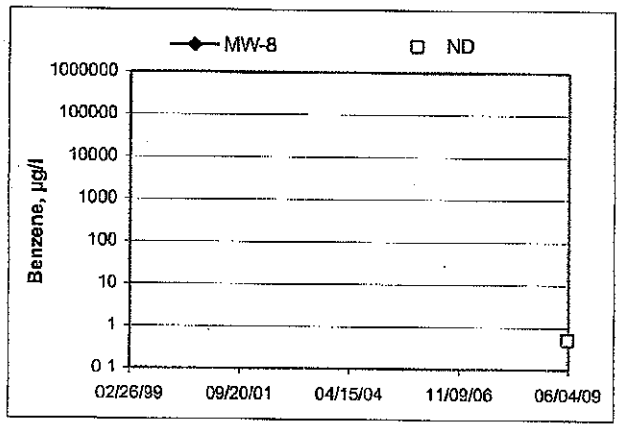


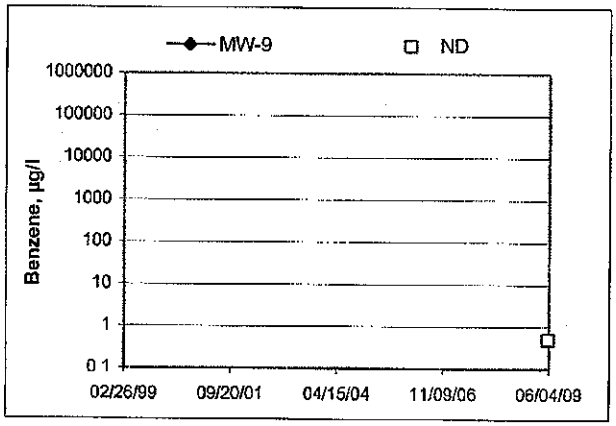


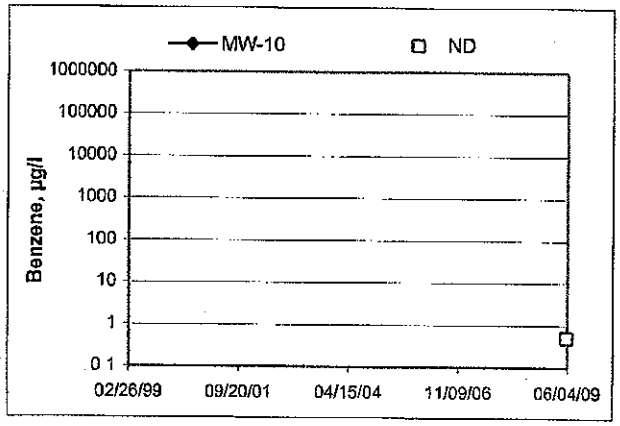
Benzene Concentrations vs Time
Former 76 Station 0843

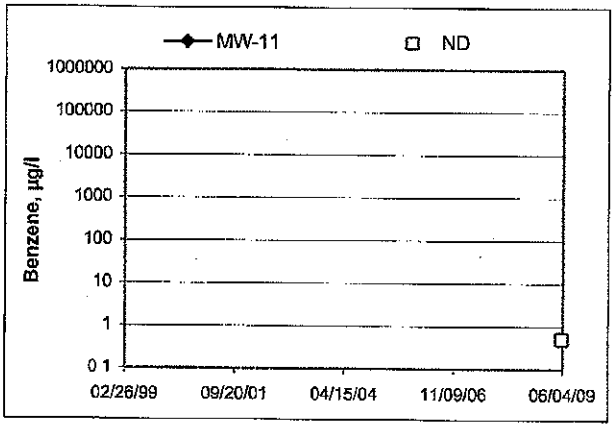












GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, IRC 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. IRC 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: Andrew Valdez Job #/Task #: 155521 / FA20 Date: 5/28/09

Site # 0843 Project Manager A. Collins Page 1 of 2

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-9	✓	0930	24.36	6.24	—	—	0935	2" Grab sample
MW-8	✓	0618	29.54	7.42	—	—	0738	2"
MW-3	✓	0627	19.85	5.64	—	—	0804	2"
MW-4	✓	0633	18.33	5.70	—	—	0830	2"
MW-5	✓	0642	20.23	5.12	—	—	0850	2"
MW-6	✓	0652	20.10	5.26	—	—	0910	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

FIELD MONITORING DATA SHEET

Technician: Ricky H. Job #/Task #: 165521 / FA26 Date: 05/28/09

Site # 0843 Project Manager A. Collins. Page 2 of 2

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
mw-1	X	0622	~~18.19~~ 18.15	6.46	—	—	0737	2"
mw-1AD	X	0628	29.77	7.25	—	—	0818	2"
mw-1BR	X	0633	34.50	6.70	—	—	0825	2"
mw-10	X	0639	29.39	6.69	—	—	0855	2"
mw-11	X	0646	27.49	6.18	—	—	0915	2"
mw-7	X	0651	29.15	8.29	—	—	0950	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Vickers

Site: 0843 Project No: 165521 Date: 5/28/09

Well No. MW-9 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
—	—	0935

Comments: Grab sample

Well No. MW-8 Purge Method: Sub

Depth to Water (feet): 7.42 Depth to Product (feet): —

Total Depth (feet) 29.54 LPH & Water Recovered (gallons): —

Water Column (feet): 22.12 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.84 1 Well Volume (gallons): 4

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							1.38	146	
0718			4	967.1	17.3	6.71			
			8	1061	18.3	6.65			
	0729		12	925.7	19.6	6.58			
POST	PURGE						2.22	68	

Static at Time Sampled	Total Gallons Purged	Sample Time
11.84	12	0738

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Vickers

Site: 0843 Project No.: 165521 Date: 5/28/04

Well No. MW-3 Purge Method: Sub

Depth to Water (feet): 5.64 Depth to Product (feet): —

Total Depth (feet) 19.85 LPH & Water Recovered (gallons): —

Water Column (feet): 14.21 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.48 1 Well Volume (gallons): 3

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							4.03	141	
0153			3	623.2	17.6	6.78			
			6	457.9	18.4	6.56			
	0158		9	708.9	18.4	6.60			
POST	PURGE						0.61	85	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.48	9	0804

Comments:

Well No. MW-4 Purge Method: Sub

Depth to Water (feet): 5.70 Depth to Product (feet): —

Total Depth (feet) 18.33 LPH & Water Recovered (gallons): —

Water Column (feet): 12.63 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.23 1 Well Volume (gallons): 3

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							3.76	141	
0817			3	1181	18.2	6.74			
			6	1169	18.4	6.82			
	0822		9	1203	18.8	6.86			
POST	PURGE						3.68	55	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.23	9	0830

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrea Vidiers

Site: 0843 Project No.: 165521 Date: 5/28/09

Well No. MW-5 Purge Method: Sub

Depth to Water (feet): 5.12 Depth to Product (feet): —

Total Depth (feet) 20.23 LPH & Water Recovered (gallons): —

Water Column (feet): 15.11 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.14 1 Well Volume (gallons): 3

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							4.32	138	
0840			3	623.1	17.6	7.22			
			6	573.4	18.1	6.85			
	0844		9	594.3	18.2	6.65			
POST	PURGE						1.71	94	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.14	9	0850

Comments:

Well No. MW-6 Purge Method: Sub

Depth to Water (feet): 5.26 Depth to Product (feet): —

Total Depth (feet) 20.10 LPH & Water Recovered (gallons): —

Water Column (feet): 14.84 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.23 1 Well Volume (gallons): 3

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							1.85	142	
0901			3	777.6	17.2	6.61			
			6	714.2	17.5	6.52			
	0905		9	745.6	17.7	6.48			
POST	PURGE						1.06	56	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.06	9	0910

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Ricky H

Site: 0843 Project No: 165521 Date: 05/28/09

Well No. mw-1 Purge Method: Sub

Depth to Water (feet): 6.46 Depth to Product (feet): —

Total Depth (feet) 19.87 LPH & Water Recovered (gallons): —

Water Column (feet): 13.41 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 9.14 1 Well Volume (gallons): 3

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							2.95	119	
0723			3	311.5	16.5	7.45			
			6	401.5	17.2	7.09			
	0730		9	479.1	17.5	6.86			
Post	PURGE						0.80	171	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.70	9	0737

Comments:

Well No. mw-1AR Purge Method: Sub

Depth to Water (feet): 7.25 Depth to Product (feet): —

Total Depth (feet) 29.77 LPH & Water Recovered (gallons):

Water Column (feet): 22.52 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 11.75 1 Well Volume (gallons): 4

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							0.95	144	
0751			4	1157	17.5	6.76			
			8	1060	18.1	6.79			
	0758		12	846.7	18.2	6.67			
Post	PURGE						1.72	177	

Static at Time Sampled	Total Gallons Purged	Sample Time
7.25	12	0818

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Ricky H.

Site: 0847 Project No: 165521 Date: 05/28/09

Well No. ~~MW-10~~ MW-1BR Purge Method: Sub

Depth to Water (feet): 6.70 Depth to Product (feet): —

Total Depth (feet) 34.50 LPH & Water Recovered (gallons): —

Water Column (feet): 27.80 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 12.26 1 Well Volume (gallons): 5

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							1.37	~~#~~145	
0803			5	711.7	18.4	6.67			
			10	745.8	18.8	6.70			
	0811		15	770.1	18.9	6.69			
Post	PURGE						0.61	165	

Static at Time Sampled	Total Gallons Purged	Sample Time
7.81	15	0825

Comments:

Well No. ~~MW-11~~ MW-10 Purge Method: Sub

Depth to Water (feet): 6.69 Depth to Product (feet): —

Total Depth (feet) 29.39 LPH & Water Recovered (gallons): —

Water Column (feet): 22.70 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 11.23 1 Well Volume (gallons): 4

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							1.76	151	
0835			4	717.9	18.5	6.79			
			8	676.7	19.0	6.63			
	0842		12	656.9	19.1	6.56			
Post	PURGE						0.30	156	

Static at Time Sampled	Total Gallons Purged	Sample Time
7.00	12	0855

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Ricky H.

Site: 0843 Project No.: 165521 Date: 05/28/09

Well No. mw 11 Purge Method: Sub

Depth to Water (feet): 6.18 Depth to Product (feet): —

Total Depth (feet) 27.49 LPH & Water Recovered (gallons): —

Water Column (feet): 21.31 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.44 1 Well Volume (gallons): 4

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							0.80	1.56	
0903			4	1108	18.5	6.77			
			8	992.3	18.8	6.69			
	0910		12	938.8	18.9	6.64			
Post	PURGE						0.22	147	

Static at Time Sampled	Total Gallons Purged	Sample Time
9.58	12	0915

Comments:

Well No. mw-7 Purge Method: —Sub

Depth to Water (feet): 8.29 Depth to Product (feet): —

Total Depth (feet) 29.15 LPH & Water Recovered (gallons): —

Water Column (feet): 20.86 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 12.46 1 Well Volume (gallons): 4

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							0.63	160	
0930			4	993.0	19.9	6.77			
			8	1093	20.0	6.69			
	0942		12	951.5	20.3	6.73			
							1.24	124	

Static at Time Sampled	Total Gallons Purged	Sample Time
12.46	12	0950

Comments:

TRC

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 07/06/2009

Anju Farfan

TRC
21 Technology Drive
Irvine, CA 92618

RE: 0843
BC Work Order: 0906998
Invoice ID: B063385

Enclosed are the results of analyses for samples received by the laboratory on 5/28/2009. 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

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	Reported: 07/06/2009 9:26

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0906998-01	COC Number:	---	Receive Date:	05/28/2009 21:41	
	Project Number:	0843	Sampling Date:	05/28/2009 09:35	
	Sampling Location:	---	Sample Depth:	---	
	Sampling Point:	MW-9	Sample Matrix:	Water	
	Sampled By:	TRCI			
0906998-02	COC Number:	---	Receive Date:	05/28/2009 21:41	Metal Analysis: 2-Lab Filtered and Acidified
	Project Number:	0843	Sampling Date:	05/28/2009 07:38	
	Sampling Location:	---	Sample Depth:	---	
	Sampling Point:	MW-8	Sample Matrix:	Water	
	Sampled By:	TRCI			
0906998-03	COC Number:	---	Receive Date:	05/28/2009 21:41	
	Project Number:	0843	Sampling Date:	05/28/2009 08:04	
	Sampling Location:	---	Sample Depth:	---	
	Sampling Point:	MW-3	Sample Matrix:	Water	
	Sampled By:	TRCI			
0906998-04	COC Number:	---	Receive Date:	05/28/2009 21:41	
	Project Number:	0843	Sampling Date:	05/28/2009 08:30	
	Sampling Location:	---	Sample Depth:	---	
	Sampling Point:	MW-4	Sample Matrix:	Water	
	Sampled By:	TRCI			
0906998-05	COC Number:	---	Receive Date:	05/28/2009 21:41	
	Project Number:	0843	Sampling Date:	05/28/2009 08:50	
	Sampling Location:	---	Sample Depth:	---	
	Sampling Point:	MW-5	Sample Matrix:	Water	
	Sampled By:	TRCI			

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	**Reported:** 07/06/2009 9:26

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0906998-06	**COC Number:**	---	**Receive Date:**	05/28/2009 21:41	
	Project Number:	0843	**Sampling Date:**	05/28/2009 09:10	
	Sampling Location:	---	**Sample Depth:**	---	
	Sampling Point:	MW-6	**Sample Matrix:**	Water	
	Sampled By:	TRCI			
0906998-07	**COC Number:**	---	**Receive Date:**	05/28/2009 21:41	Metal Analysis: 2-Lab Filtered and
	Project Number:	0843	**Sampling Date:**	05/28/2009 07:37	Acidified
	Sampling Location:	---	**Sample Depth:**	---	
	Sampling Point:	MW-1	**Sample Matrix:**	Water	
	Sampled By:	TRCI			
0906998-08	**COC Number:**	---	**Receive Date:**	05/28/2009 21:41	Metal Analysis: 2-Lab Filtered and
	Project Number:	0843	**Sampling Date:**	05/28/2009 08:55	Acidified
	Sampling Location:	---	**Sample Depth:**	---	
	Sampling Point:	MW-10	**Sample Matrix:**	Water	
	Sampled By:	TRCI			
0906998-09	**COC Number:**	---	**Receive Date:**	05/28/2009 21:41	
	Project Number:	0843	**Sampling Date:**	05/28/2009 08:18	
	Sampling Location:	---	**Sample Depth:**	---	
	Sampling Point:	MW-1AR	**Sample Matrix:**	Water	
	Sampled By:	TRCI			
0906998-10	**COC Number:**	---	**Receive Date:**	05/28/2009 21:41	
	Project Number:	0843	**Sampling Date:**	05/28/2009 08:25	
	Sampling Location:	---	**Sample Depth:**	---	
	Sampling Point:	MW-1BR	**Sample Matrix:**	Water	
	Sampled By:	TRCI			

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010866 Project Manager: Anju Farfan	**Reported:** 07/06/2009 9:26

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
0906998-11	**COC Number:**	---	**Receive Date:**	05/28/2009 21:41
	Project Number:	0843	**Sampling Date:**	05/28/2009 09:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-11	**Sample Matrix:**	Water
	Sampled By:	TRCI		
0906998-12	**COC Number:**	---	**Receive Date:**	05/28/2009 21:41
	Project Number:	0843	**Sampling Date:**	05/28/2009 09:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-7	**Sample Matrix:**	Water
	Sampled By:	TRCI		

TRC
21 Technology Drive
Irvine, CA 92618

Project: 0843
Project Number: 4511010865
Project Manager: Anju Farfan

Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-01 | Client Sample Name: 0843, MW-9, 5/28/2009 9:35:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388	ND	
Ethylbenzene	**0.75**	**ug/L**	**0.50**		**EPA-8260**	**06/05/09**	**06/06/09 07:25**	**KEA**	**MS-V12**	**1**	**BSF0388**	**ND**	
Methyl t-butyl ether	**13000**	**ug/L**	**100**		**EPA-8260**	**06/05/09**	**06/09/09 13:40**	**KEA**	**MS-V12**	**200**	**BSF0388**	**ND**	**A01**
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388	ND	
Total Xylenes	**15**	**ug/L**	**1.0**		**EPA-8260**	**06/05/09**	**06/06/09 07:25**	**KEA**	**MS-V12**	**1**	**BSF0388**	**ND**	
t-Amyl Methyl ether	**11**	**ug/L**	**0.50**		**EPA-8260**	**06/05/09**	**06/06/09 07:25**	**KEA**	**MS-V12**	**1**	**BSF0388**	**ND**	
t-Butyl alcohol	**40**	**ug/L**	**10**		**EPA-8260**	**06/05/09**	**06/06/09 07:25**	**KEA**	**MS-V12**	**1**	**BSF0388**	**ND**	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388	ND	
Total Purgeable Petroleum Hydrocarbons	**1200**	**ug/L**	**50**		**Luft-GC/MS**	**06/05/09**	**06/06/09 07:25**	**KEA**	**MS-V12**	**1**	**BSF0388**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388		
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 13:40	KEA	MS-V12	200	BSF0388		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 13:40	KEA	MS-V12	200	BSF0388		
4-Bromofluorobenzene (Surrogate)	99.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 07:25	KEA	MS-V12	1	BSF0388		
4-Bromofluorobenzene (Surrogate)	96.2	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 13:40	KEA	MS-V12	200	BSF0388		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-02 | **Client Sample Name:** 0843, MW-8, 5/28/2009 7:38:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388	ND	
Methyl t-butyl ether	**12000**	**ug/L**	**100**		**EPA-8260**	**06/05/09**	**06/09/09 13:21**	**KEA**	**MS-V12**	**200**	**BSF0388**	**ND**	**A01**
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388	ND	
t-Amyl Methyl ether	**9.7**	**ug/L**	**0.50**		**EPA-8260**	**06/05/09**	**06/06/09 07:43**	**KEA**	**MS-V12**	**1**	**BSF0388**	**ND**	
t-Butyl alcohol	**35**	**ug/L**	**10**		**EPA-8260**	**06/05/09**	**06/06/09 07:43**	**KEA**	**MS-V12**	**1**	**BSF0388**	**ND**	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388	ND	
Total Purgeable Petroleum Hydrocarbons	**850**	**ug/L**	**50**		**Luft-GC/MS**	**06/05/09**	**06/06/09 07:43**	**KEA**	**MS-V12**	**1**	**BSF0388**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388		
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 13:21	KEA	MS-V12	200	BSF0388		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 13:21	KEA	MS-V12	200	BSF0388		
Toluene-d8 (Surrogate)	96.8	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388		
4-Bromofluorobenzene (Surrogate)	96.6	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 13:21	KEA	MS-V12	200	BSF0388		
4-Bromofluorobenzene (Surrogate)	97.3	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 07:43	KEA	MS-V12	1	BSF0388		

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Water Analysis (General Chemistry)

BCL Sample ID: 0906998-02 | **Client Sample Name:** 0843, MW-8, 5/28/2009 7:38:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Nitrate as NO3	12	mg/L	0.44		EPA-300.0	05/28/09	05/29/09 02:34	CRR	IC2	1	BSE1782	ND	
Sulfate	130	mg/L	1.0		EPA-300.0	05/28/09	05/29/09 02:34	CRR	IC2	1	BSE1782	ND	
Electrical Conductivity @ 25 C	923	umhos/cm	1.00		EPA-120.1	06/01/09	06/01/09 12:01	FM2	MET-1	1	BSF0068		
Iron (II) Species	ND	ug/L	1000		SM-3500-Fe	05/29/09	05/29/09 00:30	MRM	SPEC05	10	BSE1750	ND	A10
Non-Volatile Organic Carbon	9.9	mg/L	1.5		EPA-415.1	06/02/09	06/02/09 13:58	CDR	TOC2	5	BSF0258	ND	A01
Dissolved Oxygen	9.0	mg O/L	0.50		SM-4500OG	05/29/09	05/29/09 07:45	HPR	YSI-57	1	BSE1813		S05

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Project Number: 4511010865
Project Manager: Anju Farfan

Reported: 07/06/2009 9:26

Water Analysis (Metals)

BCL Sample ID: 0906998-02 | Client Sample Name: 0843, MW-8, 5/28/2009 7:38:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Hexavalent Chromium	ND	ug/L	2.0		EPA-7196	05/28/09	05/28/09 23:44	TDC	KONE-1	1	BSF0014	ND	
Manganese	280	ug/L	1.0		EPA-200.8	05/29/09	06/10/09 13:02	PRA	PE-EL1	1	BSF0626	ND	
Total Chromium	140	ug/L	10		EPA-6010B	06/03/09	06/04/09 11:08	PPS	PE-OP1	1	BSF0194	ND	
Total Recoverable Manganese	830	ug/L	1.0		EPA-200.8	06/02/09	06/03/09 12:33	PRA	PE-EL1	1	BSF0125	ND	

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Project Manager: Anju Farfan

Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-03 | Client Sample Name: 0843, MW-3, 5/28/2009 8:04:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388	ND	
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388		
4-Bromofluorobenzene (Surrogate)	97.2	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 08:01	KEA	MS-V12	1	BSF0388		

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-04 | **Client Sample Name:** 0843, MW-4, 5/28/2009 8:30:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388	ND	
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388		
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388		
4-Bromofluorobenzene (Surrogate)	96.6	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 08:19	KEA	MS-V12	1	BSF0388		

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Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-05 | **Client Sample Name:** 0843, MW-5, 5/28/2009 8:50:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388	ND	
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388		
Toluene-d8 (Surrogate)	97.7	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388		
4-Bromofluorobenzene (Surrogate)	96.3	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 08:37	KEA	MS-V12	1	BSF0388		

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-06 | **Client Sample Name:** 0843, MW-6, 5/28/2009 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
Methyl t-butyl ether	**290**	**ug/L**	**2.5**		**EPA-8260**	**06/05/09**	**06/09/09 13:03**	**KEA**	**MS-V12**	**5**	**BSF0388**	**ND**	**A01**
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388	ND	
Total Purgeable Petroleum Hydrocarbons	**74**	**ug/L**	**50**		**Luft-GC/MS**	**06/05/09**	**06/08/09 19:11**	**KEA**	**MS-V12**	**1**	**BSF0388**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388		
1,2-Dichloroethane-d4 (Surrogate)	110	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 13:03	KEA	MS-V12	5	BSF0388		
Toluene-d8 (Surrogate)	97.2	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388		
Toluene-d8 (Surrogate)	99.2	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 13:03	KEA	MS-V12	5	BSF0388		
4-Bromofluorobenzene (Surrogate)	95.6	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 19:11	KEA	MS-V12	1	BSF0388		
4-Bromofluorobenzene (Surrogate)	97.9	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 13:03	KEA	MS-V12	5	BSF0388		

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Project Manager: Anju Farfan

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-07 | **Client Sample Name:** 0843, MW-1, 5/28/2009 7:37:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
1,2-Dibromoethane	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
1,2-Dichloroethane	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
Ethylbenzene	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
Methyl t-butyl ether	**4100**	**ug/L**	**50**		**EPA-8260**	**06/05/09**	**06/08/09 19:29**	**KEA**	**MS-V12**	**100**	**BSF0388**	**ND**	**A01**
Toluene	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
Total Xylenes	ND	ug/L	20		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
t-Amyl Methyl ether	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
t-Butyl alcohol	ND	ug/L	200		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
Diisopropyl ether	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
Ethanol	ND	ug/L	5000		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
Ethyl t-butyl ether	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388	ND	A01
Total Purgeable Petroleum Hydrocarbons	**1000**	**ug/L**	**1000**		**Luft-GC/MS**	**06/05/09**	**06/06/09 07:07**	**KEA**	**MS-V12**	**20**	**BSF0388**	**ND**	**A01,A90**
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388		
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 19:29	KEA	MS-V12	100	BSF0388		
Toluene-d8 (Surrogate)	98.4	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 19:29	KEA	MS-V12	100	BSF0388		
Toluene-d8 (Surrogate)	99.5	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388		
4-Bromofluorobenzene (Surrogate)	96.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 07:07	KEA	MS-V12	20	BSF0388		
4-Bromofluorobenzene (Surrogate)	99.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 19:29	KEA	MS-V12	100	BSF0388		

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Water Analysis (General Chemistry)

BCL Sample ID: 0906998-07 | **Client Sample Name:** 0843, MW-1, 5/28/2009 7:37:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Nitrate as NO3	9.9	mg/L	0.44		EPA-300.0	05/28/09	05/29/09 02:48	CRR	IC2	1	BSE1782	ND	
Sulfate	25	mg/L	1.0		EPA-300.0	05/28/09	05/29/09 02:48	CRR	IC2	1	BSE1782	ND	
Electrical Conductivity @ 25 C	463	umhos/cm	1.00		EPA-120.1	06/01/09	06/01/09 12:03	FM2	MET-1	1	BSF0068		
Iron (II) Species	ND	ug/L	500		SM-3500-Fe L	05/29/09	05/29/09 00:30	MRM	SPEC05	5	BSE1750	ND	A10
Non-Volatile Organic Carbon	1.8	mg/L	0.30		EPA-415.1	05/29/09	05/29/09 17:32	CDR	TOC2	1	BSF0052	ND	
Dissolved Oxygen	8.6	mg O/L	0.50		SM-4500OG	05/29/09	05/29/09 07:45	HPR	YSI-57	1	BSE1814		S05

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Irvine, CA 92618	Project Manager: Anju Farfan	

Water Analysis (Metals)

BCL Sample ID: 0906998-07 | Client Sample Name: 0843, MW-1, 5/28/2009 7:37:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Hexavalent Chromium	2.0	ug/L	2.0		EPA-7196	05/28/09	05/28/09 23:44	TDC	KONE-1	1	BSF0014	ND	
Manganese	2.4	ug/L	1.0		EPA-200.8	05/29/09	06/10/09 13:05	PRA	PE-EL1	1	BSF0626	ND	
Total Chromium	87	ug/L	10		EPA-6010B	06/03/09	06/04/09 11:10	PPS	PE-OP1	1	BSF0194	ND	
Total Recoverable Manganese	550	ug/L	1.0		EPA-200.8	06/02/09	06/03/09 12:36	PRA	PE-EL1	1	BSF0125	ND	

TRC
21 Technology Drive
Irvine, CA 92618

Project: 0843
Project Number: 4511010865
Project Manager: Anju Farfan

Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-08 | **Client Sample Name:** 0843, MW-10, 5/28/2009 8:55:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397	ND	
Methyl t-butyl ether	**3500**	**ug/L**	**25**		**EPA-8260**	**06/05/09**	**06/09/09 11:51**	**KEA**	**MS-V12**	**50**	**BSF0397**	**ND**	**A01**
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397	ND	
t-Amyl Methyl ether	**4.6**	**ug/L**	**0.50**		**EPA-8260**	**06/05/09**	**06/08/09 18:53**	**KEA**	**MS-V12**	**1**	**BSF0397**	**ND**	
t-Butyl alcohol	**39**	**ug/L**	**10**		**EPA-8260**	**06/05/09**	**06/08/09 18:53**	**KEA**	**MS-V12**	**1**	**BSF0397**	**ND**	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397	ND	
Total Purgeable Petroleum Hydrocarbons	**700**	**ug/L**	**50**		**Luft-GC/MS**	**06/05/09**	**06/08/09 18:53**	**KEA**	**MS-V12**	**1**	**BSF0397**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397		
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 11:51	KEA	MS-V12	50	BSF0397		
Toluene-d8 (Surrogate)	99.2	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 11:51	KEA	MS-V12	50	BSF0397		
4-Bromofluorobenzene (Surrogate)	98.6	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 11:51	KEA	MS-V12	50	BSF0397		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 18:53	KEA	MS-V12	1	BSF0397		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	Reported: 07/06/2009 9:26

Water Analysis (General Chemistry)

BCL Sample ID: 0906998-08 | Client Sample Name: 0843, MW-10, 5/28/2009 8:55:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Nitrate as NO3	9.1	mg/L	0.44		EPA-300.0	05/28/09	05/29/09 03:01	CRR	IC2	1	BSE1782	ND	
Sulfate	30	mg/L	1.0		EPA-300.0	05/28/09	05/29/09 03:01	CRR	IC2	1	BSE1782	ND	
Electrical Conductivity @ 25 C	661	umhos/cm	1.00		EPA-120.1	06/01/09	06/01/09 12:04	FM2	MET-1	1	BSF0068		
Iron (II) Species	150	ug/L	100		SM-3500-Fe[	05/29/09	05/29/09 00:30	MRM	SPEC05	1	BSE1750	ND	
Non-Volatile Organic Carbon	2.4	mg/L	0.30		EPA-415.1	05/29/09	05/29/09 17:50	CDR	TOC2	1	BSF0052	ND	
Dissolved Oxygen	7.1	mg O/L	0.50		SM-4500OG	05/29/09	05/29/09 07:45	HPR	YSI-57	1	BSE1814		S05

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	**Reported:** 07/06/2009 9:26

Water Analysis (Metals)

BCL Sample ID: 0906998-08 | **Client Sample Name:** 0843, MW-10, 5/28/2009 8:55:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Hexavalent Chromium	**2.0**	**ug/L**	**2.0**		**EPA-7196**	**05/28/09**	**05/28/09 23:44**	**TDC**	**KONE-1**	**1**	**BSF0014**	**ND**	
Manganese	**280**	**ug/L**	**1.0**		**EPA-200.8**	**05/29/09**	**06/10/09 13:08**	**PRA**	**PE-EL1**	**1**	**BSF0626**	**ND**	
Total Chromium	ND	ug/L	10		EPA-6010B	06/03/09	06/04/09 11:12	PPS	PE-OP1	1	BSF0194	ND	
Total Recoverable Manganese	**350**	**ug/L**	**1.0**		**EPA-200.8**	**06/02/09**	**06/03/09 13:45**	**PRA**	**PE-EL1**	**1**	**BSF0125**	**ND**	

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Project: 0843
Project Number: 4511010865
Project Manager: Anju Farfan

Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-09 | **Client Sample Name:** 0843, MW-1AR, 5/28/2009 8:18:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
Methyl t-butyl ether	**930**	**ug/L**	**6.2**		**EPA-8260**	**06/08/09**	**06/09/09 12:45**	**KEA**	**MS-V12**	**12.500**	**BSF0483**	**ND**	**A01**
Toluene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
t-Amyl Methyl ether	**1.6**	**ug/L**	**0.50**		**EPA-8260**	**06/08/09**	**06/08/09 18:35**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483	ND	
Total Purgeable Petroleum Hydrocarbons	**380**	**ug/L**	**50**		**Luft-GC/MS**	**06/08/09**	**06/08/09 18:35**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 12:45	KEA	MS-V12	12.500	BSF0483		
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483		
Toluene-d8 (Surrogate)	96.4	%	88 - 110 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 12:45	KEA	MS-V12	12.500	BSF0483		
4-Bromofluorobenzene (Surrogate)	96.9	%	86 - 115 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 18:35	KEA	MS-V12	1	BSF0483		
4-Bromofluorobenzene (Surrogate)	96.3	%	86 - 115 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 12:45	KEA	MS-V12	12.500	BSF0483		

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Project: 0843
Project Number: 4511010865
Project Manager: Anju Farfan

Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-10 | **Client Sample Name:** 0843, MW-1BR, 5/28/2009 8:25:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
Methyl t-butyl ether	**810**	**ug/L**	**5.0**		**EPA-8260**	**06/08/09**	**06/09/09 12:27**	**KEA**	**MS-V12**	**10**	**BSF0483**	**ND**	**A01**
Toluene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
t-Amyl Methyl ether	**2.0**	**ug/L**	**0.50**		**EPA-8260**	**06/08/09**	**06/08/09 18:17**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483	ND	
Total Purgeable Petroleum Hydrocarbons	**290**	**ug/L**	**50**		**Luft-GC/MS**	**06/08/09**	**06/08/09 18:17**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 12:27	KEA	MS-V12	10	BSF0483		
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483		
Toluene-d8 (Surrogate)	97.1	%	88 - 110 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 12:27	KEA	MS-V12	10	BSF0483		
4-Bromofluorobenzene (Surrogate)	97.8	%	86 - 115 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 12:27	KEA	MS-V12	10	BSF0483		
4-Bromofluorobenzene (Surrogate)	96.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 18:17	KEA	MS-V12	1	BSF0483		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-11 | **Client Sample Name:** 0843, MW-11, 5/28/2009 9:15:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483	ND	
Methyl t-butyl ether	**15000**	**ug/L**	**120**		**EPA-8260**	**06/08/09**	**06/09/09 14:16**	**KEA**	**MS-V12**	**250**	**BSF0483**	**ND**	**A01**
Toluene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483	ND	
t-Amyl Methyl ether	**9.4**	**ug/L**	**0.50**		**EPA-8260**	**06/08/09**	**06/08/09 17:59**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	
t-Butyl alcohol	**140**	**ug/L**	**10**		**EPA-8260**	**06/08/09**	**06/08/09 17:59**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483	ND	
Total Purgeable Petroleum Hydrocarbons	**920**	**ug/L**	**50**		**Luft-GC/MS**	**06/08/09**	**06/08/09 17:59**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 14:16	KEA	MS-V12	250	BSF0483		
1,2-Dichloroethane-d4 (Surrogate)	99.7	%	76 - 114 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483		
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 14:16	KEA	MS-V12	250	BSF0483		
Toluene-d8 (Surrogate)	97.6	%	88 - 110 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483		
4-Bromofluorobenzene (Surrogate)	98.3	%	86 - 115 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 17:59	KEA	MS-V12	1	BSF0483		
4-Bromofluorobenzene (Surrogate)	97.6	%	86 - 115 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 14:16	KEA	MS-V12	250	BSF0483		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	**Reported:** 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906998-12 | **Client Sample Name:** 0843, MW-7, 5/28/2009 9:50:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483	ND	
Ethylbenzene	**1.4**	**ug/L**	**0.50**		**EPA-8260**	**06/08/09**	**06/08/09 17:41**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	
Methyl t-butyl ether	**15000**	**ug/L**	**100**		**EPA-8260**	**06/08/09**	**06/09/09 13:58**	**KEA**	**MS-V12**	**200**	**BSF0483**	**ND**	**A01**
Toluene	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483	ND	
Total Xylenes	**7.1**	**ug/L**	**1.0**		**EPA-8260**	**06/08/09**	**06/08/09 17:41**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	
t-Amyl Methyl ether	**11**	**ug/L**	**0.50**		**EPA-8260**	**06/08/09**	**06/08/09 17:41**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	
t-Butyl alcohol	**150**	**ug/L**	**10**		**EPA-8260**	**06/08/09**	**06/08/09 17:41**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483	ND	
Total Purgeable Petroleum Hydrocarbons	**1100**	**ug/L**	**50**		**Luft-GC/MS**	**06/08/09**	**06/08/09 17:41**	**KEA**	**MS-V12**	**1**	**BSF0483**	**ND**	**A90**
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 13:58	KEA	MS-V12	200	BSF0483		
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483		
Toluene-d8 (Surrogate)	97.8	%	88 - 110 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 13:58	KEA	MS-V12	200	BSF0483		
4-Bromofluorobenzene (Surrogate)	96.5	%	86 - 115 (LCL - UCL)		EPA-8260	06/08/09	06/09/09 13:58	KEA	MS-V12	200	BSF0483		
4-Bromofluorobenzene (Surrogate)	95.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/08/09	06/08/09 17:41	KEA	MS-V12	1	BSF0483		

TRC	Project: 0843	Reported: 07/06/2009 9:26
21 Technology Drive	Project Number: 4511010865	
Irvine, CA 92618	Project Manager: Anju Farfan	

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BSF0388	Matrix Spike	0906490-64	0	18.500	25.000	ug/L		74.0		70 - 130	
		Matrix Spike Duplicate	0906490-64	0	21.440	25.000	ug/L	14.8	85.8	20	70 - 130	
Toluene	BSF0388	Matrix Spike	0906490-64	0	19.970	25.000	ug/L		79.9		70 - 130	
		Matrix Spike Duplicate	0906490-64	0	23.130	25.000	ug/L	14.6	92.5	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSF0388	Matrix Spike	0906490-64	ND	10.020	10.000	ug/L		100		76 - 114	
		Matrix Spike Duplicate	0906490-64	ND	10.230	10.000	ug/L		102		76 - 114	
Toluene-d8 (Surrogate)	BSF0388	Matrix Spike	0906490-64	ND	10.050	10.000	ug/L		100		88 - 110	
		Matrix Spike Duplicate	0906490-64	ND	10.120	10.000	ug/L		101		88 - 110	
4-Bromofluorobenzene (Surrogate)	BSF0388	Matrix Spike	0906490-64	ND	10.090	10.000	ug/L		101		86 - 115	
		Matrix Spike Duplicate	0906490-64	ND	9.9100	10.000	ug/L		99.1		86 - 115	
Benzene	BSF0397	Matrix Spike	0906857-03	0	20.430	25.000	ug/L		81.7		70 - 130	
		Matrix Spike Duplicate	0906857-03	0	21.450	25.000	ug/L	4.9	85.8	20	70 - 130	
Toluene	BSF0397	Matrix Spike	0906857-03	0	21.250	25.000	ug/L		85.0		70 - 130	
		Matrix Spike Duplicate	0906857-03	0	22.520	25.000	ug/L	5.8	90.1	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSF0397	Matrix Spike	0906857-03	ND	10.070	10.000	ug/L		101		76 - 114	
		Matrix Spike Duplicate	0906857-03	ND	10.050	10.000	ug/L		100		76 - 114	
Toluene-d8 (Surrogate)	BSF0397	Matrix Spike	0906857-03	ND	10.110	10.000	ug/L		101		88 - 110	
		Matrix Spike Duplicate	0906857-03	ND	9.8800	10.000	ug/L		98.8		88 - 110	
4-Bromofluorobenzene (Surrogate)	BSF0397	Matrix Spike	0906857-03	ND	9.9900	10.000	ug/L		99.9		86 - 115	
		Matrix Spike Duplicate	0906857-03	ND	9.8000	10.000	ug/L		98.0		86 - 115	
Benzene	BSF0483	Matrix Spike	0907041-01	0.19000	21.430	25.000	ug/L		85.0		70 - 130	
		Matrix Spike Duplicate	0907041-01	0.19000	22.010	25.000	ug/L	2.7	87.3	20	70 - 130	
Toluene	BSF0483	Matrix Spike	0907041-01	0	22.760	25.000	ug/L		91.0		70 - 130	
		Matrix Spike Duplicate	0907041-01	0	23.630	25.000	ug/L	3.8	94.5	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSF0483	Matrix Spike	0907041-01	ND	9.5400	10.000	ug/L		95.4		76 - 114	
		Matrix Spike Duplicate	0907041-01	ND	9.9700	10.000	ug/L		99.7		76 - 114	

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Toluene-d8 (Surrogate)	BSF0483	Matrix Spike	0907041-01	ND	9.8700	10.000	ug/L		98.7		88 - 110	
		Matrix Spike Duplicate	0907041-01	ND	9.9600	10.000	ug/L		99.6		88 - 110	
4-Bromofluorobenzene (Surrogate)	BSF0483	Matrix Spike	0907041-01	ND	9.9300	10.000	ug/L		99.3		86 - 115	
		Matrix Spike Duplicate	0907041-01	ND	9.8200	10.000	ug/L		98.2		86 - 115	

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	Reported: 07/06/2009 9:26

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Iron (II) Species	BSE1750	Duplicate	0906992-01	41086	41175		ug/L	0.2		10		
Nitrate as NO3	BSE1782	Duplicate	0906927-01	15.773	15.436		mg/L	2.2		10		
		Matrix Spike	0906927-01	15.773	38.455	22.358	mg/L		101		80 - 120	
		Matrix Spike Duplicate	0906927-01	15.773	37.927	22.358	mg/L	1.9	99.1	10	80 - 120	
Sulfate	BSE1782	Duplicate	0906927-01	206.74	206.55		mg/L	0.1		10		
		Matrix Spike	0906927-01	206.74	309.98	101.01	mg/L		102		80 - 120	
		Matrix Spike Duplicate	0906927-01	206.74	309.36	101.01	mg/L	0	102	10	80 - 120	
Dissolved Oxygen	BSE1813	Duplicate	0906986-01	2.6000	2.6000		mg O/L	0		10		
Dissolved Oxygen	BSE1814	Duplicate	0906998-07	8.6000	8.7000		mg O/L	1.2		10		
Non-Volatile Organic Carbon	BSF0052	Duplicate	0906977-01	0.71100	0.68400		mg/L	3.9		10		
		Matrix Spike	0906977-01	0.71100	5.8724	5.0251	mg/L		103		80 - 120	
		Matrix Spike Duplicate	0906977-01	0.71100	5.8211	5.0251	mg/L	1.0	102	10	80 - 120	
Electrical Conductivity @ 25 C	BSF0068	Duplicate	0906997-01	797.50	799.00		umhos/cm	0.2		10		
Non-Volatile Organic Carbon	BSF0258	Duplicate	0906998-02	9.8600	9.8150		mg/L	0.5		10		
		Matrix Spike	0906998-02	9.8600	35.965	25.126	mg/L		104		80 - 120	
		Matrix Spike Duplicate	0906998-02	9.8600	36.005	25.126	mg/L	0	104	10	80 - 120	

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	Reported: 07/06/2009 9:26

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Hexavalent Chromium	BSF0014	Duplicate	0906998-02	1.9140	ND		ug/L			10		
		Matrix Spike	0906998-02	1.9140	55.758	52.632	ug/L		102		85 - 115	
		Matrix Spike Duplicate	0906998-02	1.9140	55.627	52.632	ug/L	0	102	10	85 - 115	
Total Recoverable Manganese	BSF0125	Duplicate	0906926-01	1964.7	1979.7		ug/L	0.8		20		
		Matrix Spike	0906926-01	1964.7	1997.8	100.00	ug/L		33.1		70 - 130	A03
		Matrix Spike Duplicate	0906926-01	1964.7	1980.7	100.00	ug/L	69.7	16.0	20	70 - 130	A03,Q02
Total Chromium	BSF0194	Duplicate	0906997-01RE1	28.260	29.496		ug/L	4.3		20		
		Matrix Spike	0906997-01RE1	28.260	239.06	200.00	ug/L		105		75 - 125	
		Matrix Spike Duplicate	0906997-01RE1	28.260	241.79	200.00	ug/L	1.9	107	20	75 - 125	
Manganese	BSF0626	Duplicate	0907034-01	439.30	442.75		ug/L	0.8		20		
		Matrix Spike	0907034-01	439.30	521.89	102.04	ug/L		80.9		70 - 130	
		Matrix Spike Duplicate	0907034-01	439.30	538.70	102.04	ug/L	18.5	97.4	20	70 - 130	

TRC
21 Technology Drive
Irvine, CA 92618

Project: 0843
Project Number: 4511010865
Project Manager: Anju Farfan

Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BSF0388	BSF0388-BS1	LCS	22.580	25.000	0.50	ug/L	90.3		70 - 130		
Toluene	BSF0388	BSF0388-BS1	LCS	24.080	25.000	0.50	ug/L	96.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSF0388	BSF0388-BS1	LCS	10.270	10.000		ug/L	103		76 - 114		
Toluene-d8 (Surrogate)	BSF0388	BSF0388-BS1	LCS	9.9300	10.000		ug/L	99.3		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSF0388	BSF0388-BS1	LCS	10.030	10.000		ug/L	100		86 - 115		
Benzene	BSF0397	BSF0397-BS1	LCS	21.830	25.000	0.50	ug/L	87.3		70 - 130		
Toluene	BSF0397	BSF0397-BS1	LCS	23.700	25.000	0.50	ug/L	94.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSF0397	BSF0397-BS1	LCS	9.6000	10.000		ug/L	96.0		76 - 114		
Toluene-d8 (Surrogate)	BSF0397	BSF0397-BS1	LCS	9.9100	10.000		ug/L	99.1		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSF0397	BSF0397-BS1	LCS	9.9800	10.000		ug/L	99.8		86 - 115		
Benzene	BSF0483	BSF0483-BS1	LCS	22.800	25.000	0.50	ug/L	91.2		70 - 130		
Toluene	BSF0483	BSF0483-BS1	LCS	24.280	25.000	0.50	ug/L	97.1		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSF0483	BSF0483-BS1	LCS	10.010	10.000		ug/L	100		76 - 114		
Toluene-d8 (Surrogate)	BSF0483	BSF0483-BS1	LCS	9.9400	10.000		ug/L	99.4		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSF0483	BSF0483-BS1	LCS	9.6300	10.000		ug/L	96.3		86 - 115		

TRC	Project: 0843	Reported: 07/06/2009 9:26
21 Technology Drive	Project Number: 4511010865	
Irvine, CA 92618	Project Manager: Anju Farfan	

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Iron (II) Species	BSE1750	BSE1750-BS1	LCS	2045.7	2000.0	100	ug/L	102		90 - 110		
Nitrate as NO3	BSE1782	BSE1782-BS1	LCS	22.400	22.134	0.44	mg/L	101		80 - 110		
Sulfate	BSE1782	BSE1782-BS1	LCS	100.24	100.00	1.0	mg/L	100		90 - 110		
Non-Volatile Organic Carbon	BSF0052	BSF0052-BS1	LCS	5.1840	5.0000	0.30	mg/L	104		85 - 115		
Electrical Conductivity @ 25 C	BSF0068	BSF0068-BS1	LCS	296.50	303.00	1.00	umhos/cm	97.9		90 - 110		
Non-Volatile Organic Carbon	BSF0258	BSF0258-BS1	LCS	5.1580	5.0000	0.30	mg/L	103		85 - 115		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	Reported: 07/06/2009 9:26

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Hexavalent Chromium	BSF0014	BSF0014-BS1	LCS	50.208	50.000	2.0	ug/L	100		85 - 115		
Total Recoverable Manganese	BSF0125	BSF0125-BS2	LCS	102.89	100.00	1.0	ug/L	103		85 - 115		
Total Chromium	BSF0194	BSF0194-BS1	LCS	202.91	200.00	10	ug/L	101		85 - 115		
Manganese	BSF0626	BSF0626-BS1	LCS	87.447	100.00	1.0	ug/L	87.4		85 - 115		

TRC
21 Technology Drive
Irvine, CA 92618

Project: 0843
Project Number: 4511010865
Project Manager: Anju Farfan

Reported: 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BSF0388	BSF0388-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSF0388	BSF0388-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSF0388	BSF0388-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSF0388	BSF0388-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSF0388	BSF0388-BLK1	ND	ug/L	0.50		
Toluene	BSF0388	BSF0388-BLK1	ND	ug/L	0.50		
Total Xylenes	BSF0388	BSF0388-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSF0388	BSF0388-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BSF0388	BSF0388-BLK1	ND	ug/L	10		
Diisopropyl ether	BSF0388	BSF0388-BLK1	ND	ug/L	0.50		
Ethanol	BSF0388	BSF0388-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BSF0388	BSF0388-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BSF0388	BSF0388-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BSF0388	BSF0388-BLK1	102	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSF0388	BSF0388-BLK1	97.2	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSF0388	BSF0388-BLK1	100	%	86 - 115 (LCL - UCL)		
Benzene	BSF0397	BSF0397-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSF0397	BSF0397-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSF0397	BSF0397-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSF0397	BSF0397-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSF0397	BSF0397-BLK1	ND	ug/L	0.50		
Toluene	BSF0397	BSF0397-BLK1	ND	ug/L	0.50		
Total Xylenes	BSF0397	BSF0397-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSF0397	BSF0397-BLK1	ND	ug/L	0.50		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	**Reported:** 07/06/2009 9:26

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
t-Butyl alcohol	BSF0397	BSF0397-BLK1	ND	ug/L	10		
Diisopropyl ether	BSF0397	BSF0397-BLK1	ND	ug/L	0.50		
Ethanol	BSF0397	BSF0397-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BSF0397	BSF0397-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BSF0397	BSF0397-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BSF0397	BSF0397-BLK1	105	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSF0397	BSF0397-BLK1	99.0	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSF0397	BSF0397-BLK1	96.9	%	86 - 115 (LCL - UCL)		
Benzene	BSF0483	BSF0483-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSF0483	BSF0483-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSF0483	BSF0483-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSF0483	BSF0483-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSF0483	BSF0483-BLK1	ND	ug/L	0.50		
Toluene	BSF0483	BSF0483-BLK1	ND	ug/L	0.50		
Total Xylenes	BSF0483	BSF0483-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSF0483	BSF0483-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BSF0483	BSF0483-BLK1	ND	ug/L	10		
Diisopropyl ether	BSF0483	BSF0483-BLK1	ND	ug/L	0.50		
Ethanol	BSF0483	BSF0483-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BSF0483	BSF0483-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BSF0483	BSF0483-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BSF0483	BSF0483-BLK1	104	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSF0483	BSF0483-BLK1	98.3	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSF0483	BSF0483-BLK1	96.7	%	86 - 115 (LCL - UCL)		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	**Reported:** 07/06/2009 9:26

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Iron (II) Species	BSE1750	BSE1750-BLK1	ND	ug/L	100		
Nitrate as NO3	BSE1782	BSE1782-BLK1	ND	mg/L	0.44		
Sulfate	BSE1782	BSE1782-BLK1	ND	mg/L	1.0		
Non-Volatile Organic Carbon	BSF0052	BSF0052-BLK1	ND	mg/L	0.30		
Non-Volatile Organic Carbon	BSF0258	BSF0258-BLK1	ND	mg/L	0.30		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	**Reported:** 07/06/2009 9:26

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Hexavalent Chromium	BSF0014	BSF0014-BLK1	ND	ug/L	2.0		
Total Recoverable Manganese	BSF0125	BSF0125-BLK2	ND	ug/L	1.0		
Total Chromium	BSF0194	BSF0194-BLK1	ND	ug/L	10		
Manganese	BSF0626	BSF0626-BLK1	ND	ug/L	1.0		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0843 Project Number: 4511010865 Project Manager: Anju Farfan	**Reported:** 07/06/2009 9:26

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.
A03	The sample concentration is more than 4 times the spike level.
A10	PQL's and MDL's were raised due to matrix interference.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
Q02	Matrix spike precision is not within the control limits.
S05	The sample holding time was exceeded.

BC LABORATORIES, INC.

June 12, 2009

TRC
21 Technology Drive
Irvine, CA 92618
Attn: Anju Farfan
RE: 09-06998

BC Lab#	Client ID	Sample Date	Sample Time
09-06998-02	MW-8	05/28/09	07:38
09-06998-07	MW-1	05/28/09	07:37
09-06998-08	MW-10	05/28/09	08:55

Attached are analytical results analyzed by Zalco Laboratories, Inc.

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Friday, June 05, 2009

Molly Meyers
BC Laboratories Inc
4100 Atlas Court
Bakersfield, CA 93308

TEL: (661) 327-4911
FAX (661) 327-1918

RE: 0906998

Order No.: 0906003

Dear Molly Meyers:

Zalco Laboratories, Inc. received 3 sample(s) on 6/1/2009 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results

Sincerely,

Authorized Signature
Zalco Laboratories, Inc.
(661) 395-0539

ZALCO LABORATORIES, INC.
Analytical and Consulting Services
4309 Armour Avenue
Bakersfield, California 93308
(661) 395-0539
FAX (661) 395-3069

CLIENT:	BC Laboratories Inc	**Report Date:**	6/5/2009
Lab Order:	0906003	**Lab ID:**	0906003-001A
Project:	0906998	**Collection Date:**	5/28/2009 7:38:00 AM
Client Sample ID:	0906998-02	**Matrix:**	AQUEOUS
Report Comment:			

Analyses	Method	Result	Units	Date Analyzed	Qual.
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	124	mv	6/1/2009	

Qualifiers / Abbreviations:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
H - Hold Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
DLR: Detection Limit for Reporting
NSS - Non-Sufficient Sample Amount

ZALCO LABORATORIES, INC.
Analytical and Consulting Services
4309 Armour Avenue
Bakersfield, California 93308
(661) 395-0539
FAX (661) 395-3069

CLIENT:	BC Laboratories Inc	**Report Date:**	6/5/2009
Lab Order:	0906003	**Lab ID:**	0906003-002A
Project:	0906998	**Collection Date:**	5/28/2009 7:37:00 AM
Client Sample ID:	0906998-07	**Matrix:**	AQUEOUS
Report Comment:			

Analyses	Method	Result	Units	Date Analyzed	Qual.
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	130	mv	6/1/2009	

Qualifiers / Abbreviations:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	DLR: Detection Limit for Reporting
	H - Hold Time Exceeded	NSS - Non-Sufficient Sample Amount

ZALCO LABORATORIES, INC.
Analytical and Consulting Services
4309 Armour Avenue
Bakersfield, California 93308
(661) 395-0539
FAX (661) 395-3069

CLIENT:	BC Laboratories Inc	**Report Date:**	6/5/2009
Lab Order:	0906003	**Lab ID:**	0906003-003A
Project:	0906998	**Collection Date:**	5/28/2009 8:55:00 AM
Client Sample ID:	0906998-08	**Matrix:**	AQUEOUS
Report Comment:			

Analyses	Method	Result	Units	Date Analyzed	Qual.
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	139	mv	6/1/2009	

Qualifiers / Abbreviations:	ND - Not Detected at the Reporting Limit
	J - Analyte detected below quantitation limits
	B - Analyte detected in the associated Method Blank
	* - Value exceeds Maximum Contaminant Level
	H - Hold Time Exceeded
	S - Spike Recovery outside accepted recovery limits
	R - RPD outside accepted recovery limits
	E - Value above quantitation range
	DLR: Detection Limit for Reporting
	NSS - Non-Sufficient Sample Amount

SUBCONTRACT ORDER

BC Laboratories

0906998

0906063

SENDING LABORATORY:

BC Laboratories
4100 Atlas Ct
Bakersfield, CA 93308
Phone: 661-327-4911
Fax: 661-327-1918
Project Manager: Molly Meyers

RECEIVING LABORATORY:

Zalco Laboratories $ZLCLB
4309 Armour
Bakersfield, CA 93308
Phone :395-0539
Fax: 395-3069

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 0906998-02 F	**Water**	**Sampled:05/28/09 07:38**	[redacted]	8.1
oiA-D1498w ORP ZLCLB	06/11/09 17:00	05/27/10 07:38		
Containers Supplied				
1 Qt Amb				
Sample ID: 0906998-07	**Water**	**Sampled:05/28/09 07:37**	[redacted]	
oiA-D1498w ORP ZLCLB	06/11/09 17:00	05/27/10 07:37		
Containers Supplied				
Qt Amb				
Sample ID: 0906998-08	**Water**	**Sampled:05/28/09 08:55**	[redacted]	
oiA-D1498w ORP ZLCLB	06/11/09 17:00	05/27/10 08:55		
Containers Supplied				
Qt Amb				

Released By	Date	Received By	Date
6/1/09 ~~5/29/09~~			6-1-09 0940
Released By	Date	Received By	Date
6-1-09 0950			6/1/09 9:50

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 05/24/08 Page 1 Of 3

Submission #: 09-0L0998

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: .98 Container: PIA Thermometer ID: IH163

Temperature: A 1.4 °C / C 1.1 °C

2150 Date/Time 05-28-09

Analyst Init MLm

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		B				B	B			
PT TOX										
PT CHEMICAL OXYGEN DEMAND						(JNW) 5/28/09				
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A 3	A 3	A 3	A 3	A 3	A 3	A 3	A 3	A 3	A 3
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										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

CHK BY: MLm

DISTRIBUTION: ORIGINAL PINK SUB-OUT ☐

SHORT HOLDING TIME

Cl -6	NO_2	NO_3	OP	SS
DO	BOD	MBAS	C	O T

Comments:

Sample Numbering Completed By: JNW Date/Time: 5/28/09 2310

A = Actual / C = Corrected

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

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 05/24/08 Page 2 Of 3

Submission #: 09-0W998

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: .98 Container: QT P2 Thermometer ID: TH163

Temperature: A 11.1 °C / C 0.8 °C

2150 Date/Time 05-28-09

Analyst Init KZm

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		D				B	E	E		
PT PE UNPRESERVED						*				
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C				D	D	D		
PT CYANIDE						*				
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON						E	BC	BC		
PT TOX						JLW	*			
PT CHEMICAL OXYGEN DEMAND						5/28/09				
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		EF				* FG	FG	FG		
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON		G				A	H	H		
ENCORE						*				

Comments:_____

Sample Numbering Completed By: JLW Date/Time: 5/28/09 2310

A = Actual / C = Corrected

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 06/24/08 Page 3 Of 3

Submission #: 09-0164198

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: .98 Container: P1A Thermometer ID: TH163

Temperature: A 1.4 °C / C 1.1 °C

2150 Date/Time 05-28-09

Analyst Init KRm

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	A 13	A 13	( )	( )	( )	( )	( )	( )	( )	( )
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										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:_____

Sample Numbering Completed By: JDW Date/Time: 5/28/09 2310

A = Actual / C = Corrected

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

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

CHAIN OF CUSTODY

09-01-0968

Bill to: Conoco Phillips/ TRC	Consultant Firm: TRC	MATRIX (GW) Groundwater (S) Soil (WW) Wastewater (SL) Sludge
Address: 1629 Webster St.	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan	
City: Alameda	4-digit site#: 0843 Workorder # 02807-451010865	
State: CA Zip:	Project #: 165521	
Conoco Phillips Mgr: Terry Grayson	Sampler Name: ANDREW VIDIVERS	

Lab#	Sample Description	Field Point Name	Date & Time Sampled	MATRIX	BTEX/MTBE by 8021B, Gas by 8015	Total Manganese by 200.8	Total Chrom by 6010	8260 full list w/ oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B, EDB/EDC by 8260B	TPH -G by GC/MS	Sulfate by 300.0, Nitrate by 300.0	Dissolved manganese by 200.8, Chrom VI by 7196	DO by SM 4500-O, Specific Conductance (EC) by	Turnaround Time Requested
-1		MW-9	5/28/09 0935	GW					X	X	X				STD
-2		MW-8	0738			X	X					X	X	X	
-3		MW-3	0804												
-4		MW-4	0830												
-5		MW-5	0850												
-6		MW-6	0910												
-7		MW-1	0737			X	X					X	X	X	
-8		MW-10	0855			X	X					X	X	X	

Comments:

GLOBAL ID: T0600102263

Relinquished by: (Signature)	Received by:	Date & Time
	Ross Duckley	5/28/09 1412
Relinquished by: (Signature) Ross Duckley 5/28/09	R Reynolds	5-28-09 1825
Relinquished by: (Signature) R Reynolds 5-28-09 2140		5-28-09 2141

BC LABORATORIES, INC.

4100 Atlas Court Bakersfield, CA 93308
(661) 327-4911 FAX (661) 327-1918

CHAIN OF CUSTODY

09-00098

Analysis Requested

Bill to: Conoco Phillips/ TRC	**Consultant Firm: TRC**	
Address: 1629 Webster St.	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan	
City: Alameda	**4-digit site#:** 0843	
	Workorder # 02807-45|10|0865	
State: CA **Zip:**	**Project #:** 165521	
Conoco Phillips Mgr: Terry Grayson	**Sampler Name:** Andrew Vidaurs	

MATRIX: (GW) Groundwater; (S) Soil; (WW) Wastewater; (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	8260 full list w/ oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPH -G by GC/MS	Ferrous Iron by SM18350FE+D	TOC by 415.1	ORP by ASTM D1498	Turnaround Time Requested
-2		MW-8	5/28/09 0738	GW								X	X	X	STD
-7		MW-1	0737	↓								↓	↓	↓	↓
-8		MW-10	0855	↓								↓	↓	↓	↓

Comments:

GLOBAL ID: T0600102263

Relinquished by: (Signature)	Received by:	Date & Time: 5/28/09 1412
Relinquished by: (Signature) Ross Dickey 5/28/09	Received by:	Date & Time: 5-28-09 1825
Relinquished by: (Signature) 5-28-09 2140	Received by:	Date & Time: 5-28-09 2141

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

CHAIN OF COUSTODY

09-06998 **Analysis Requested**

Bill to: Conoco Phillips/ TRC	Consultant Firm: TRC
Address: 1629 Webster Rd	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan
City: Alameda	4-digit site#: 0843 Workorder #: 02807-4511010865
State: CA Zip:	Project #: 165521
Conoco Phillips Mgr: Terry Grayson	Sampler Name: Ricky H

MATRIX (GW) Groundwater (S) Soil (WW) Wastewater (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	8260 full list w/ oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPH -G by GC/MS	EDB/EDC by 8260B			Turnaround Time Requested
-9		mw-1AR	05/28/09 0818	GW					X	X	X	X			STD
-10		mw-1BR	↓ 0825	↓					↓	↓	↓	↓			↓
-11		mw-11	↓ 0915	↓					↓	↓	↓	↓			↓
-12		mw-7	↓ 0950	↓					↓	↓	↓	↓			↓

Comments:	Relinquished by: (Signature)	Received by:	Date & Time
	[signature]	Ross Dickey	5/28/09 1412
GLOBAL ID:	Relinquished by: (Signature) Ross Dickey 5/28/09	Received by: R Kuryand	Date & Time 5-28-09 1825
T0600102263	Relinquished by: (Signature) R Kuryand 5-28-09 2140	Received by: [signature]	Date & Time 5-28-09 2141

STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling of monitoring wells was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by a licensed carrier, to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by others.

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.