ConocoPhillips
76 Broadway
Sacramento, California 95818

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11:10 am, Mar 22, 2011

Alameda County
Environmental Health

March 18, 2011

Alameda County Health Agency – Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Attention: Ms. Barbara Jakub

Re: **Remedial Action Plan**
76 Service Station #0843
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.

If you have any questions or need additional information, please contact me at (916) 558-7612.

Sincerely,

Bill Borgh

Bill Borgh
Site Manager – Risk Management and Remediation

Attachment

REMEDIAL ACTION PLAN

76 Service Station No. 0843(2349)
1629 Webster Stree
Alameda, CA

Antea Group Project No. C1Q2349219

March 18, 2011

Prepared for:
ConocoPhillips
76 Broadway
Sacramento, CA 95818

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

Antea USA, Inc.

Antea Group
11050 White Rock Road, Suite 110
Rancho Cordova, California 95670
www.anteagroup.com

March 18, 2011

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

RE: REMEDIAL ACTION PLAN
76 Service Station No. 0843/2349
1629 Webster Street
Alameda, California

Dear Ms. Jakub:

Due to global rebranding, as of January 5, 2011 Delta Consultants (Delta) has become Antea Group. Any work performed or reports submitted prior to this date will be referenced using the Delta name.

On behalf of ConocoPhillips Company (ConocoPhillips), Antea Group is submitting this *Remedial Action Plan* for 76 Station No. 0843/2349 in Alameda, California.

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

Sincerely,

ANTEA GROUP

James Barnard
Project Manager

Enclosure

cc: Mr. Bill Borgh – COP (electronic copy only)

REMEDIAL ACTION PLAN

76 SERVICE STATION NO. 0843/2349
1629 WEBSTER STREET
ALAMEDA, CA

March 18, 2010

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.

ANTEA GROUP

Alan Buehler
Staff Geologist

James B. Barnard, P.G.
California Registered Professional Geologist No. 7478

1.0 INTRODUCTION

On behalf of ConocoPhillips, Antea Group has prepared this report for the 76 Service Station No. 0843/2349 (site) located at 1629 Webster Street, Alameda, California (Figure 1). The purpose of this report is to provide a summary of site data and to propose a plan for remedial action.

This Remedial Action Plan is being submitted in response to Alameda County Health Care Services Agency's (ACHCSA's) approval of Delta's August 24, 2010 *Corrective Action Plan*. A copy of this approval letter is included as Appendix A.

2.0 SITE BACKGROUND

2.1 PREVIOUS ENVIRONMENTAL WORK

A site map with historical sampling locations is included as Figure 2.

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. 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 was 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 (ACHCSA), 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 2007 - Delta submitted a work plan to the ACHCSA recommending the advancement of one soil boring and the installation of three ozone injection wells at the site.

August 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 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 ozone injection point well (TSP-1) were installed at the site. One onsite monitoring well (MW-2A) was abandoned. Results of this investigation are presented in the *Site Investigation and Well Installation Report*, dated July 9, 2009.

January 10/11, 2011 - Antea oversaw the air-knife and direct push boring advancement activities performed Gregg Drilling and Testing. Each of the five borings (DP-1 through DP-5) was advanced to a total depth of 15 feet bgs, using GeoProbe technology.

A site map with historical sampling locations as Figure 2, and a site map with current monitoring wells and sparge points and proposed sparge points and remedial system locations is included as Figure 3.

2.2 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 miles southwest of the site; one domestic/irrigation well located 0.7 miles southeast of the site; 11 irrigation wells with three located 0.1 miles northwest, west, and southeast of the site; and two industrial wells located 0.3 miles southwest and 0.9 miles northeast of the site.

2.3 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.

Historical boring logs are included as Appendix B, and historical geologic cross sections are included as Appendix C.

2.4 SITE HYDROGEOLOGY

A historical groundwater flow direction rose diagram is included as Figure 4.

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 (fourth quarter 2010) groundwater monitoring and sampling event conducted by TRC on November 11, 2010, depth to groundwater ranged from 6.36 feet (MW-5) to 8.46 (MW-1BR) below top of casing (TOC). The groundwater flow direction was interpreted to be to the northeast at a gradient of 0.004 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 0.005 ft/ft (11/13/09).

3.0 REMEDIAL ACTION PLAN

3.1 SITE CHARACTERIZATION

3.1.1 Extent of Petroleum Hydrocarbon-Impacted Soil

The extent of the petroleum hydrocarbon impacted soil has been evaluated. The extent of the impacted soil appears to be limited to the site, and appears to be concentrated around the location of the former eastern dispenser island. A review of historical soil analytical results indicates the highest soil concentrations were at approximately 5 to 10 feet bgs, in the vicinity of MW-7.

Based on the analytical results of this investigation (January 10/11, 2011), it does not appear that any significant hydrocarbon impact remains in soil surrounding MW-7. The highest hydrocarbon concentrations were 110 mg/kg TPHg (DP-3@9.5-10), 0.27 mg/kg ethylbenzene (DP-3@9.5-10), and 0.80 mg/kg total xylenes (DP-3@9.5-10), with all other constituents below laboratory indicted reporting limits.

Soil samples collected from boring DP-1 were below laboratory indicated reporting limits for all constituents analyzed at all depths.

The maximum TPHg concentration in DP-2 was 77 mg/kg at 9.5 to 10 feet bgs. This depth also contained less than 0.10 mg/kg ethylbenzene and total xylenes. 0.22 mg/kg TPHg was reported in this boring at 11.5 to 12 feet bgs. All other constituents at all depths were below laboratory indicated reporting limits.

The maximum TPHg concentration in boring DP-3 was 110 mg/kg at 9.5 to 10 feet bgs. This depth also contained less than 1.0 mg/kg ethylbenzene and total xylenes. All constituents at all other depths were below laboratory indicated reporting limits.

The maximum TPHg concentration in DP-4 was 1.8 mg/kg at 9.5 to 10 feet bgs. This depth also contained less than 0.02 mg/kg ethylbenzene and total xylenes. TPHg was also detected in this boring at a concentration of 0.64 mg/kg at 11.5 to 12 feet bgs. This depth also contained less than 0.01 mg/kg ethylbenzene. All other constituents at all depth were below laboratory indicated reporting limits.

The maximum TPHg concentration in boring DP-5 was 2.3 mg/kg at 13 to 13.5 feet bgs. This depth also contained less than 0.5 mg/kg ethylbenzene and total xylenes. TPHg was also reported in this boring at a concentration of 1.6 mg/kg at 9.5 to 10 feet bgs. This depth also contained less than 0.3 mg/kg ethylbenzene and total xylenes. All other constituents at all depths were below laboratory indicated reporting limits.

As a result of the soil analyzes, Antea does not recommend excavation of the area around MW-7.

Historical soil analytical results are included as Table 1, historical boring logs are included as Appendix B, historical geologic cross sections are included as Appendix C.

3.1.2 Extent of Petroleum Hydrocarbon-Impacted Groundwater

The extent of the petroleum hydrocarbon impact to groundwater appears to be assessed down-gradient. Based on fourth quarter 2010 quarterly monitoring data, TPHg and MTBE concentrations extend down-gradient to MW-6 (off-site), but are not present in MW-5, further down gradient.

Groundwater samples are analyzed semi-annually for the presence of total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethyl-benzene, and total xylenes (collectively BTEX compounds), and fuel oxygenates [methyl tert butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), tertiary-amyl methyl ether (TAME), tert-butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA), ethylene dibromide (EDB), and ethanol] by Environmental Protection Agency (EPA) Method 8260B. All wells are also analyzed for dissolved oxygen (DO) and oxygen reducing potential (ORP).

Results indicate highest concentrations of TPHg, and MTBE in groundwater in the northeastern and south-central portion of the property in the vicinity of wells MW-7 and MW-11. Lab results from the most recent sampling event (November 11, 2010) indicates that TPHg does not exhibit a “gasoline” pattern. TPHg is entirely due to MTBE according to the analysis of the chromatogram at the lab.

Historical groundwater monitoring and sampling (M&S) analytical results and fourth quarter 2010 groundwater elevation and constituent concentration isocontours are included in TRC’s *Groundwater Monitoring Report – October through December*, dated December 21, 2010 (Appendix D). Historical grab groundwater analytical results are included as Table 2.

3.1.3 Groundwater Concentration Trends

Although fluctuations have occurred, TPHg, and MTBE concentrations in the historically impacted wells (MW-1, MW-1AR, MW-1BR, MW-2, MW-3, MW-7, MW-8, MW-9, MW-10, and MW-11) have decreased throughout the course of monitoring. Though wells MW-1, MW-7, MW-8, and MW-11 are currently the most impacted wells, their concentrations have decreased significantly over the course of monitoring and sampling. However, MW-7 through MW-11 have only been monitored and sampled for the past 7 events (second quarter 2009 through fourth quarter 2010), so trends are inconclusive.

Historical groundwater elevation and constituent concentration versus time graphs for identified primary constituents of concern (COCs) are included as Appendix E. Value below reporting limit are reported as half of the reporting limit.

3.2 CONSTITUENTS OF CONCERN

Historical soil and grab groundwater analytical results are included as Table 1 and Table 2, respectively. Historical groundwater monitoring and sampling (M&S) data is included as part of TRC's *Groundwater Monitoring Report – October through December* 2010 (Appendix D).

MTBE is the primary COC at this site, with very high levels observed in MW-11 (6,100 µg/L), MW-7 (13,000 µg/L), and MW-8 (4,900 µg/L), as well as some of the surrounding wells. TPHg is also a primary COC with high levels in MW-11 (1,600 µg/L), and MW-7 (2,600 µg/L) as well as some of the surrounding wells. However, lab results from the most recent sampling event (November 11, 2010) indicate that TPHg does not exhibit a "gasoline" pattern. TPHg is entirely due to MTBE based on the analysis of the chromatogram at the lab.

An unauthorized release was reported at the Shell service station to the south (up-gradient) of the site. This caused increased concentrations in onsite wells. Based on generally decreasing concentrations since 2007, it appears that natural attenuation has been occurring.

3.3 PROPOSED CLEANUP LEVELS

The target soil cleanup levels are based on Commercial Environmental Screening Levels (ESLs) for soils greater than 3 meters bgs where groundwater is a current or potential source of drinking water. Commercial ESLs for TPHg, benzene, and MTBE in soils are 83 mg/kg, 0.044 mg/kg, and 0.023 mg/kg, respectively. Target groundwater cleanup goals are based on Groundwater ESLs where groundwater is a current or potential source of drinking water. Groundwater ESLs for TPHg, benzene, and MTBE are 100 µg /L, 1.0 µg /L, and 5 µg /L, respectively.

Historical soil concentrations are above the listed ESL levels only in soil samples taken from MW-7. Current soil concentrations around MW-7 exceed the listed ESL for TPHg in only one sample. Current groundwater concentrations are above the above listed ESL levels in wells MW-1, MW-1AR, MW-1BR, MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11.

Groundwater elevation and constituent concentration isocontours from fourth quarter 2010 monitoring and sampling are included as part of TRC's *Groundwater Monitoring Report – October through December* 2010 (Appendix D).

3.4 OZONE/OXYGEN INJECTION

In the *Corrective Action Plan*, dated April 7, 2010, Delta recommended ozone/oxygen injection as the most viable remedial option.

Ozone/oxygen injection is a remedial method in which an air/ozone mixture or oxygen is injected into the groundwater using microporous injection points. Ozone is a highly reactive chemical that has shown to be effective in destroying (via oxidation) a wide variety of organic chemicals including petroleum hydrocarbons and oxygenates with the by-products being carbon dioxide and water. The following generalized equation shows the reaction of ozone on hydrocarbons:

$$C_6H_{12} \text{ (Petroleum Hydrocarbon)} + 6O_3 \rightarrow 6CO_2 + 6H_2O$$

In addition, the injection of ozone into the subsurface can enhance the natural biodegradation of organic chemicals through increased dissolved oxygen concentrations since ozone rapidly decomposes to oxygen. Significant reductions in contaminant concentrations in groundwater have been observed in as little as a few weeks to a few months with ozone injection.

Antea Group proposes the implementation of an ozone injection system to consist of ten (10) ozone sparge points, and a trailer-mounted ozone generator. One sparge point (TSP-1) is an existing sparge points, while the remaining nine (TPS-2 through TSP-10) are proposed. The site is currently vacant, but the owner frequently rents the property to the City of

Alameda for a holiday or special events activity area. There is also an active underground water utility that crosses the property. Due to these factors, above ground PVC piping will run from the compound, to be placed in the southwest corner along the wall of the restaurant, and in the planter area along the property line between the site and the SK Auto facility immediately to the west. Each of the nine sparge points will be connected to this above ground PVC piping via tubing placed in trenches dug to 2 feet bgs. The trenching of the connecting line will allow for future public use of the space, while the above ground PVC, placed out of the way of possible foot traffic, would reduce any issues that may arise due to trenching above existing underground utilities.

3.5 PROPOSED SPARGE POINT PLACEMENT

A site map with current monitoring wells and sparge points and proposed remedial system locations is included as Figure 3.

An ozone injection pilot test was performed by Delta as detailed in their *Ozone Injection Feasibility Testing Report*, dated September 20, 2009. During this pilot test, ozone was injected into sparge point TSP-1 daily for a period of 4 weeks. In this report, it is determined that wells MW-7 and MW-8 were mildly affected by the ozone injection. MW-7 and MW-8, the furthest wells from the injection well, are approximately 50 and 54 feet northeast of the injection well, respectively. It was determined that wells MW-1AR, MW-1BR, MW-9, MW-10, and MW-11 were significantly affected by the injection. These well wells are between 8 and 15 feet from the injection well. Due to this data, Antea Group used 20 feet as an effective radius of influence in the placement of the proposed sparge points. With existing TSP-1 and the 9 additional proposed wells, this 20 foot radius of influence will allow for effective overlapping coverage of the entire site.

Since excavation around MW-7 will not occur, a semi-circular curtain of 5 wells will be placed in the northeast corner, the most down-gradient onsite location, near the most impacted wells, MW-7 and MW-8. This curtain will effectively target the area with the highest groundwater impact, as well as any impact migrating offsite. The remaining 4 proposed wells will be placed throughout the site, in conjunction with the existing sparge point, in order to provide the most efficient radial coverage.

3.6 PROPOSED SPARGE POINT INSTALLATION

3.6.1 Prefield Activities

Before commencing field activities Delta will prepare a Health and Safety Plan in accordance with state and federal requirements for use during on-site assessment activities. In addition, drilling permits will be obtained from the Alameda County Public Works Agency (ACPWA). Prior to drilling, Delta will review available as-built drawings, notify Underground Service Alert (USA) and contract a private utility locator as required to clear the proposed boring locations for underground utilities. Prior to drilling, each location will be cleared to at least 5 feet bgs with an air vacuum or water vacuum to minimize potential impact to underground utilities.

3.6.2 Installation Procedure

One sparge point (TSP-1) already exists at the site, and was installed as part of Delta's 2009 site investigation and well installation activities, and was used for radius of influence testing. Antea Group proposes to install 9 additional sparge points (TSP-2 through TSP-10) on the site. Each well borehole will be drilled to 36 feet bgs, with each sparge point being installed at a depth of 35 feet bgs. In each well, one foot of Lonestar 2/12 or equivalent sand will placed in the bottom of the borehole, from 36 to 35 feet bgs. A two-foot ceramic gas diffuser tip will be placed above the sand from 35 to 33 feet bgs in each well. Sand will be placed from 35 feet bgs to 32 feet bgs, one foot above the top of the gas diffuser. Above this sand, 5 feet of bentonite will be placed from 32 to 27 feet bgs and hydrated in place. A grout mixture of 20% bentonite and 80% neat cement will be placed from 27 feet bgs to one foot below ground surface. Each well will be finished with an 8 inch well box set in concrete dyed to match existing surface conditions.

A sparge point construction detail is included as Figure 5.

3.6.3 OZONE REMEDIATION

Prior to the start of the ozone remediation, baseline groundwater samples and measurements will be collected from all site monitoring wells. The baseline groundwater samples will be analyzed for TPHg, BTEX, fuel oxygenates by EPA Method 8260B, manganese, total chromium, vanadium, selenium and molybdenum by EPA Method 200.8, bromide, nitrate (NO3) and sulfate (SO4) by EPA Method 300.0, bromate by EPA Method 300.1, hexavalent chromium by EPA Method 7199, and ferrous iron (FE) by EPA Standard Method 3500. In addition, measurements of groundwater elevation, dissolved oxygen (DO), oxygen reducing potential (ORP), and temperature will be collected from the monitoring wells. Antea proposes that, if possible, this baseline testing be performed during a scheduled groundwater monitoring and sampling event prior to the feasibility test.

The ozone injection feasibility testing will be performed using a mobile ozone injection unit capable of delivering up to 0.99 pounds of ozone per day into the subsurface. The ozone remediation will be conducted for 24 hours a day, seven days a week (24/7), for a duration of six to nine months. During the injection process, operating pressures, groundwater elevation, DO, and ORP levels in all monitoring wells will be measured and recorded daily. Sampling during the injection process will be made on monthly intervals.

Approximately two weeks after startup of the ozone injection wells, groundwater samples will be collected from the all monitoring wells. The samples 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 the same constituents as the baseline sampling event.

3.7 PROPOSED OZONE INJECTION

Antea Group proposes to conduct ozone sparging at the site for in-situ treatment of hydrocarbon impact using the above mentioned existing and proposed sparge points. The system uses low-flow compressed air and gas diffusers to introduce ozone below the water table to oxidize contaminants.

The system will consist of one generator/control unit with a 12-point capacity to serve the 10 onsite sparge points (TSP-1 through TSP-10). The system will be operated continuously (24/7) to remediate impacted soil and groundwater. Ozone will be injected into the subsurface at a rate not to exceed 0.99 pounds per day (lbs/day).

The generator/control unit will be placed along the southwest corner of the property, along the wall that is the southern boundary of the property within a secure, fenced surrounding. The control unit will be connected to the sparge points at the well heads via a combination of above ground and below ground piping, as described above. Flow of the ozone to the sparge points will be cycled, with intervals to be determined during system startup.

Once the system is shutdown, monthly monitoring and sampling of all monitoring wells will be conducted for a period of three months.

3.8 QUARTERLY MONITORING

Currently, all wells are monitored quarterly. Wells MW-1, MW-3, MW-4, MW-5, and MW-6 are sampled semi-annually during first and third quarters, and wells MW-1A, MW-1B, MW-7, MW-8, MW-9, MW-10, and MW-11 are sampled quarterly. Samples collected during monitoring and sampling are analyzed for TPHg, BTEX, MTBE, and oxygenates [tert butyl alcohol (TBA), ethylene dibromide (EDB), 1,2 dichloroethane (1,2-DCA), diisopropyl ether (DIPE), ethyl tert butyl ether (ETBE), tert amyl methyl ether (TAME), and ethanol] by Environmental Protection Agency (EPA) Method 8260B. Additionally, samples from wells MW-1AR, MW-1BR, MW-7, MW-8, MW-9, MW-10, and MW-11 are analyzed for

biodegradation parameters [total organic carbon, chromium VI, total chromium, dissolve chromium, ferrous iron, dissolved manganese, total manganese, nitrogen as nitrate, sulfate, lab dissolved oxygen, lab oxygen reducing potential (ORP), specific conductance, post-purge dissolved oxygen (DO), pre-purge DO, pre-purge ORP, and post-purge ORP].

Antea Group proposes to change the monitoring and sampling frequency to quarterly for all wells for a minimum of one hydrologic cycle. Antea Group also proposes that biodegradation parameter analyzes be extended to included wells MW-1 and MW-3, MW-4, MW-5, and MW-6, for a minimum of one hydrologic cycle.

4.0 LIMITATONS

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

*****

FIGURES

Figure 1 – Site Location Map
Figure 2 – Site Plan with Historical Sampling Locations
Figure 3 – Site Plan with Current Monitoring Wells and Sparge Points and Proposed Remedial System
Figure 4 – Historical Groundwater Flow Direction Rose Diagram
Figure 5 - Sparge Point Construction Diagram

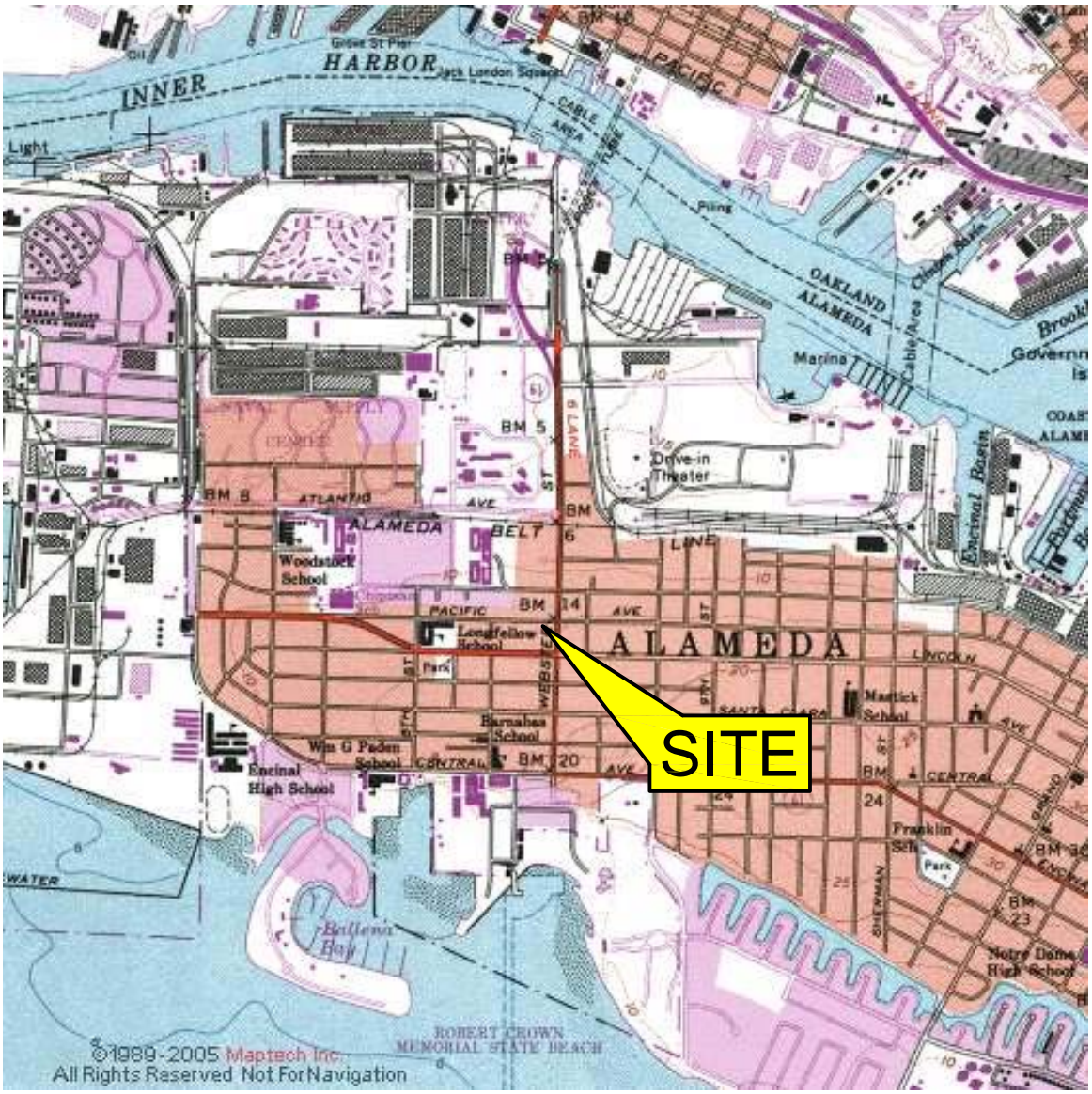
TABLES

Table 1 – Historical Soil Analytical Results
Table 2 – Historical Grab Groundwater Analytical Results

APPENDICES

Appendix A – ACHCSA Approval Letter, Dated October 4, 2010
Appendix B – Historical Boring Logs
Appendix C – Historical Geologic Cross Sections
Appendix D – Groundwater Monitoring Report – October through December 2010
Appendix E – Concentration versus Time Graphs

FIGURES



0 1000 FT 2000 FT

SCALE: 1 : 24,000

North

FIGURE 1

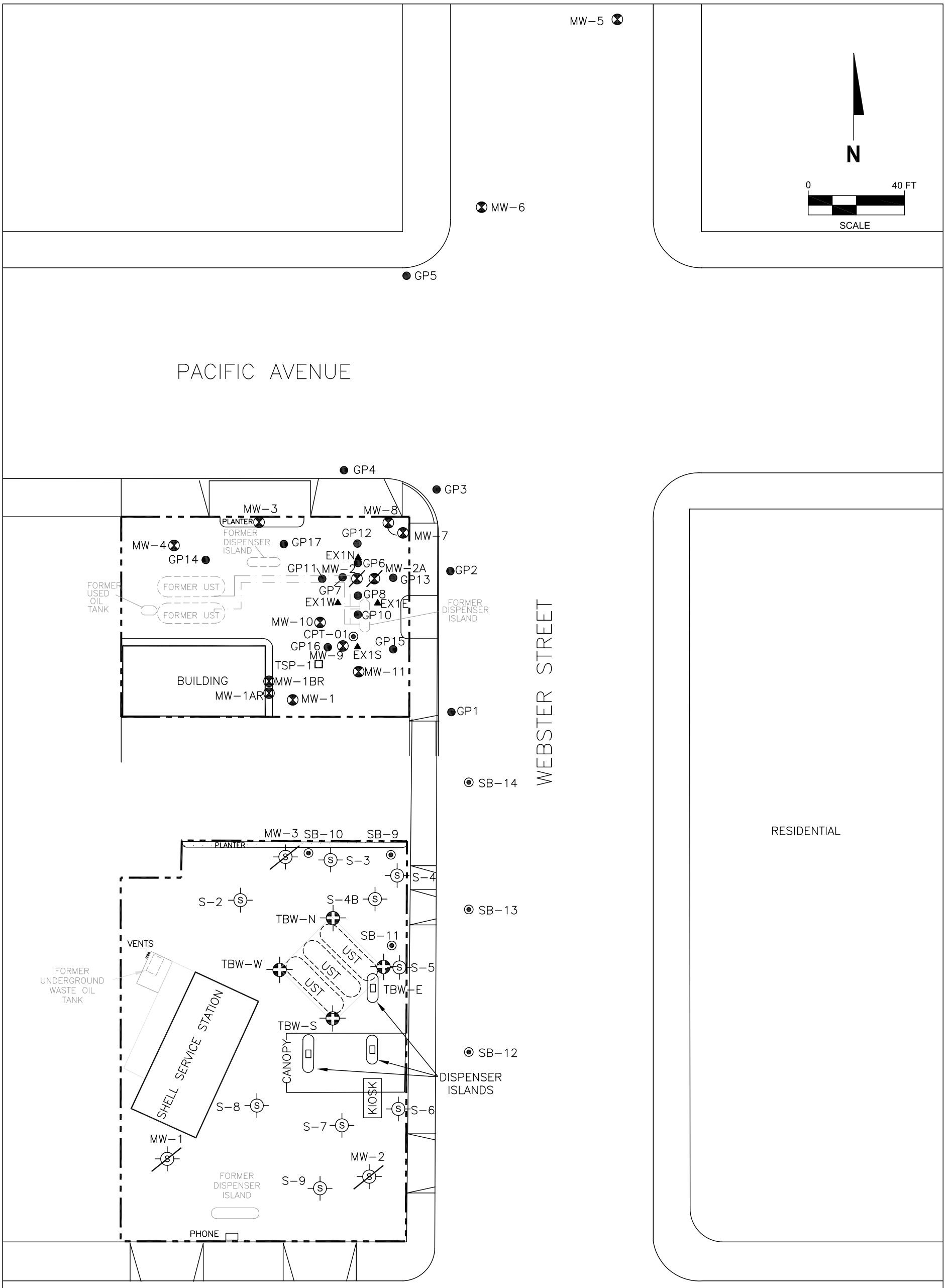
SITE LOCATION MAP

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

antea group

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



LEGEND:

- PROPERTY BOUNDARY
- FORMER PRODUCT LINE
- CURRENT 76 MONITORING WELL
- ABANDONED/DESTROYED 76 MONITORING WELL
- SHELL MONITORING WELL
- DESTROYED SHELL MONITORING WELL
- TANK BACKFILL WELL
- DIRECT-PUSH SOIL BORING
- CPT SOIL BORING
- CURRENT SPARGE POINT
- SOIL SAMPLE LOCATION

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

FIGURE 2
SITE PLAN WITH HISTORICAL SAMPLING LOCATIONS

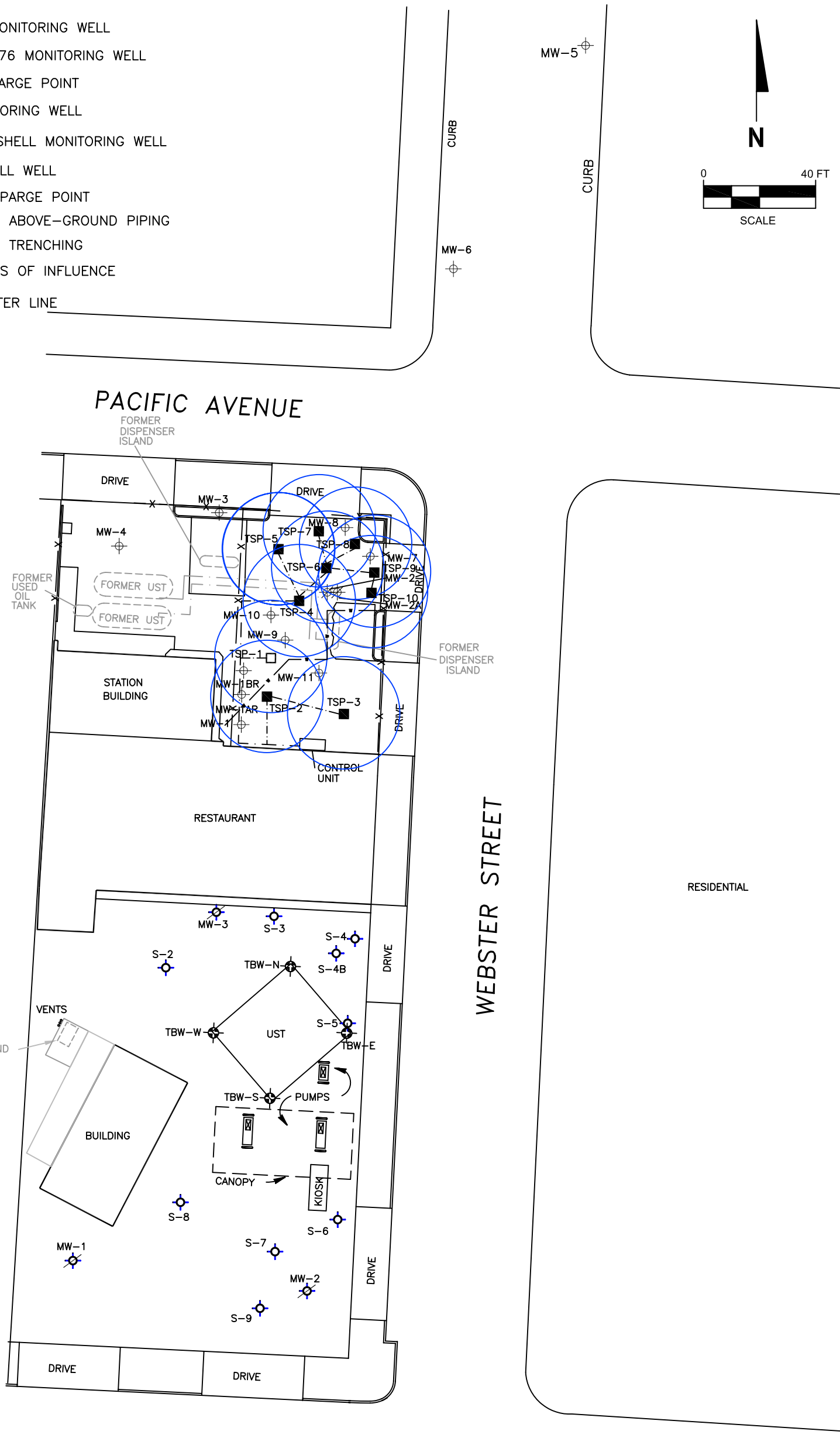
FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C100843	AB	JH
DATE	REVIEWED BY	FILE NAME
04/05/10	JW	76-0843

antea group

LEGEND:

MW–1 ACTIVE 76 MONITORING WELL
MW–2A ABANDONED 76 MONITORING WELL
TSP–1 CURRENT SPARGE POINT
S–1 SHELL MONITORING WELL
MW–1 DESTROYED SHELL MONITORING WELL
TBW–N TANK BACKFILL WELL
TSP–2 PROPOSED SPARGE POINT
SPARGE LINE ABOVE–GROUND PIPING
SPARGE LINE TRENCHING
20 FT RADIUS OF INFLUENCE
EXISTING WATER LINE



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

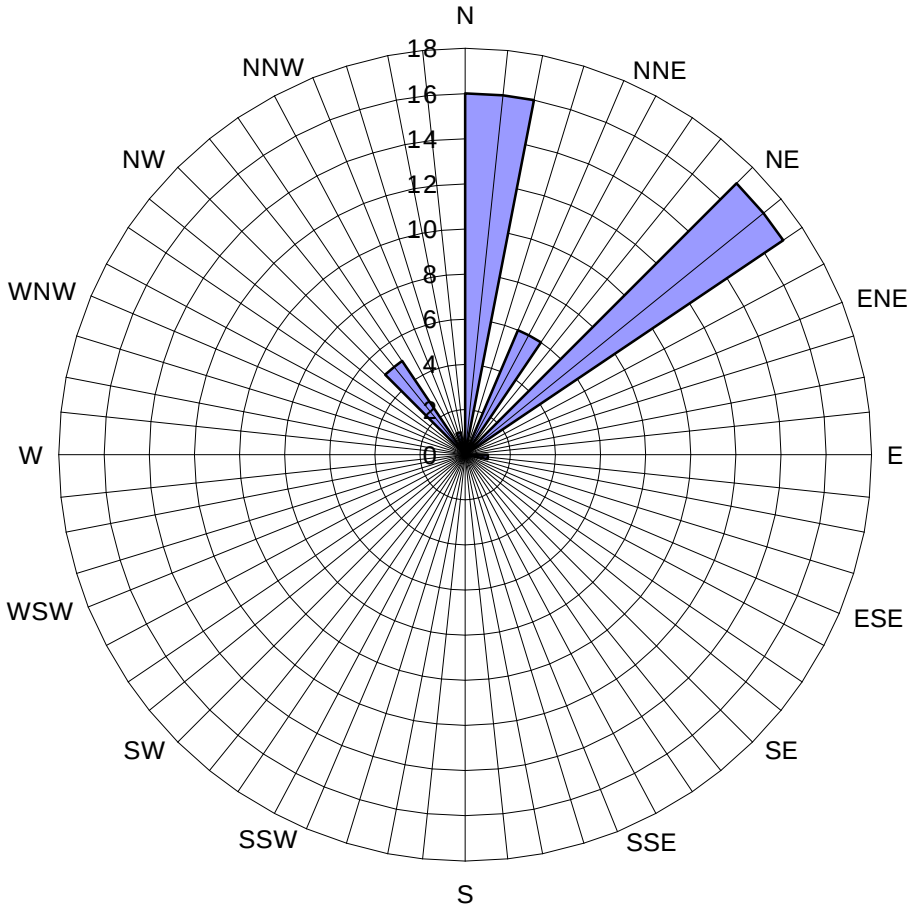
FIGURE 3
SITE PLAN WITH CURRENT MONITORING WELLS, SPARGE POINTS & PROPOSED REMEDIAL SYSTEM LOCATIONS
FORMER 76 STATION NO. 0843
1629 WEBSTER ROAD
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C102349217	AB	JH
DATE	REVIEWED BY	FILE NAME
02/25/11	JBB	76–0843–S

anteagroup

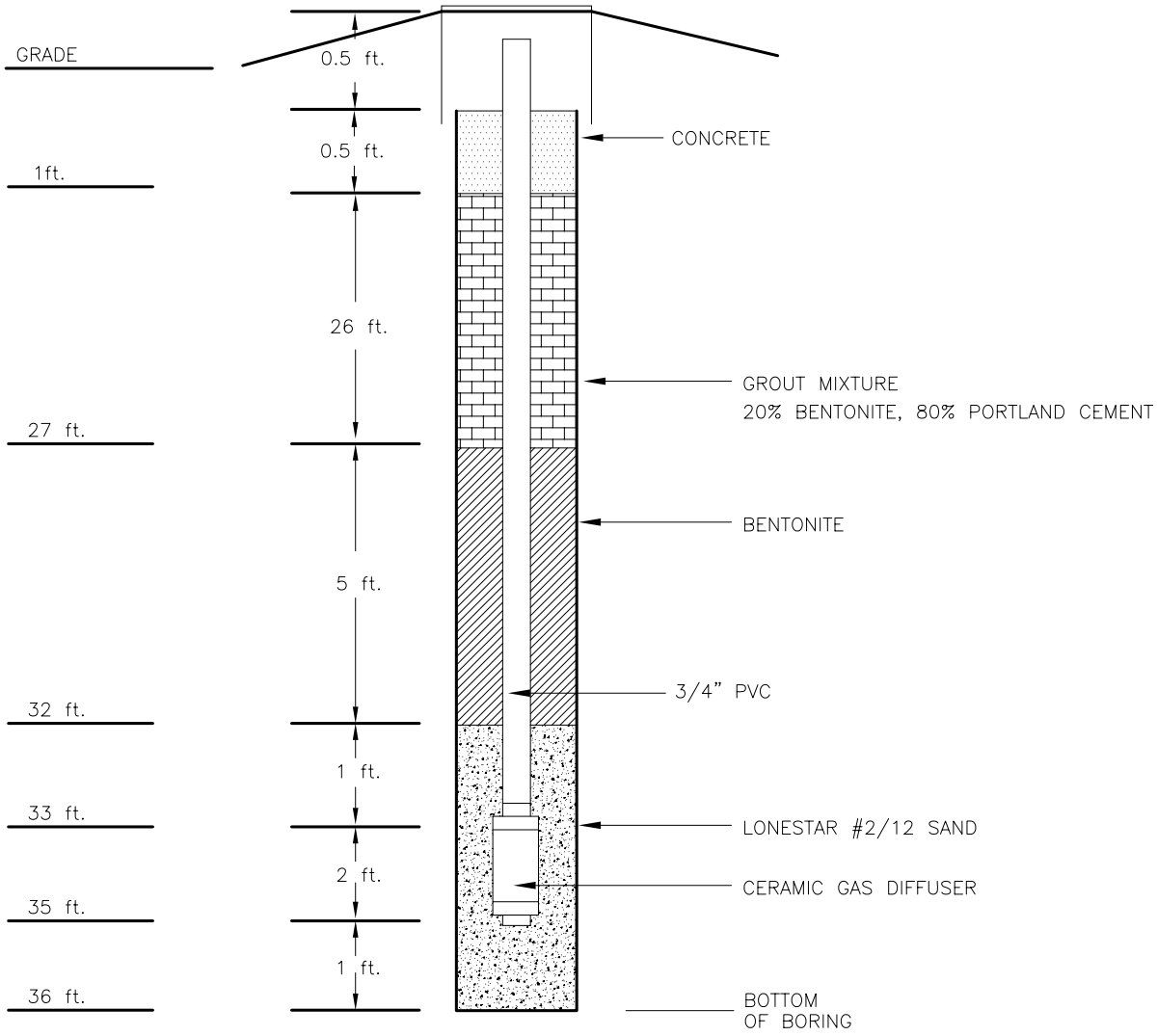
FIGURE 4

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



Legend

Concentric circles represent quarterly monitoring events.
Second Quarter 1999 through Fourth Quarter 2010.
46 data points shown.



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 5
SPARGE POINT CONSTRUCTION DETAILS

FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C100843	AB	JH
DATE	REVIEWED BY	FILE NAME
03/11/11	JBB	0843-ProSP

anteagroup

TABLES

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
76 Service Station No. 0843/2349
1629 Webster St
Alameda, California

Sample ID	Depth	Date	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	Ethanol (mg/kg)	Sulfate (mg/kg)	Manganese (mg/kg)
S-10.5-B-1	10.5	3/2/1999	<0.40	<0.010	<0.0020	<0.0020	<0.0020	<0.010	--	--	--	--	--	--	--	--	--
S-10.5-B-2	10.5	3/2/1999	<2.0	**0.0295**	**0.0658**	**0.0359**	**0.119**	**0.561**	--	--	--	--	--	--	--	--	--
S-10.5-B-3	10.5	3/2/1999	<0.40	<0.010	<0.0020	<0.0020	<0.0020	<0.010	--	--	--	--	--	--	--	--	--
S-10.5-B-4	10.5	3/2/1999	<0.40	<0.010	<0.0020	<0.0020	<0.0020	**0.109**	--	--	--	--	--	--	--	--	--
S-4-GP1	4	5/23/2001	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-5-GP-2	5	5/23/2001	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-10-GP2	10	5/23/2001	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-5-GP3	5	5/23/2001	<0.20	<0.0050	<0.0050	<0.0050	**0.011**	<0.050	--	--	--	--	--	--	--	--	--
S-5-GP4	5	5/23/2001	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-4-GP5	4	5/23/2001	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-10-GP5	10	5/23/2001	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	**0.18**	--	--	--	--	--	--	--	--	--
S-6.5-GP6	6.5	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6.5-GP7	6.5	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6-GP8	6	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6-GP9	6	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6.5-GP10	6.5	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6.5-GP11	6.5	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6-GP12	6	12/4/2001	<1.0	<0.0050	<0.0050	<0.010	**0.015**	<0.050	--	--	--	--	--	--	--	--	--
S-12-GP12	12	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6.5-GP13	6.5	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-12-GP13	12	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-7-GP14	7	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6-GP15	6	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-16-GP-15	16	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6.5-GP-16	6.5	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-12-GP16	12	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-6.5-GP17	6.5	12/4/2001	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	--	--	--	--	--	--	--	--	--
S-10-EX1N	10	12/4/2002	<50	<0.25	<0.25	**0.73**	**4.9**	<0.25	--	--	--	--	--	--	--	--	--
S-10-EX1S	10	12/4/2002	<1.0	<0.0050	<0.0050	<0.0053	<0.10	<0.0050	--	--	--	--	--	--	--	--	--
S-10-EX1W	10	12/4/2002	<1000	<0.25	**4.1**	**20**	**120**	<0.25	--	--	--	--	--	--	--	--	--
S-10-EX1E	10	12/4/2002	<50	<0.25	**1.2**	**0.34**	**0.82**	**0.36**	--	--	--	--	--	--	--	--	--
MW-1	7	8/14/2008	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
CPT-1	7	8/14/2008	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
MW-1AR	20	5/14/2009	**0.26**	<0.0050	<0.0050	<0.0050	<0.010	**0.25**	<0.050	<0.0050	<0.0050	<0.0050	--	<0.0050	<1.0	**15**	**160**
MW-1BR	20	5/14/2009	<0.20	<0.0050	<0.0050	<0.0050	<0.0050	**0.15**	<0.050	<0.0050	<0.0050	<0.0050	--	<0.0050	<1.0	**15**	**150**
MW-7	10	5/14/2009	**4,100**	<0.50	<0.50	**38**	**770**	<0.50	<5.0	<0.50	<0.50	<0.50	--	<0.50	<100	**16**	**110**
MW-8	15	5/14/2009	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	--	<0.0050	<1.0	**10**	**120**
MW-9	10	5/14/2009	**46**	<0.12	<0.12	**2.0**	**9.5**	<1.2	<1.2	<0.12	<0.12	<0.12	--	<0.12	<25	<10	**190**
MW-10	10	5/14/2009	**0.4**	<0.0050	<0.0050	<0.0050	<0.010	<0.0081	<0.050	<0.0050	<0.0050	<0.0050	--	<0.0050	<1.0	<10	**180**
MW-11	10	5/14/2009	**0.4**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	--	<0.0050	<1.0	**51**	**190**
TSP-1	20	5/14/2009	**0.24**	<0.0050	<0.0050	<0.0050	<0.010	**0.23**	<0.050	<0.0050	<0.0050	<0.0050	--	<0.0050	<1.0	**18**	**140**
DP-1@6.5-7	6.5-7	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-1@10-10.5	10-10.5	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-1@11.5-12	11.5-12	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-1@13-13.5	13-13.5	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-1@14.5-15	14.5-15	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-2@7.5-8	7.5-8	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-2@9.5-10	9.5-10	1/11/2011	**77**	<0.0050	<0.0050	**0.068**	**0.094**	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-2@11.5-12	11.5-12	1/11/2011	**0.22**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-2@12.5-13	12.5-13	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
76 Service Station No. 0843/2349
1629 Webster St
Alameda, California

Sample ID	Depth	Date	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	Ethanol (mg/kg)	Sulfate (mg/kg)	Manganese (mg/kg)
DP-2@14.5-15	14.5-15	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-3@7.5-8	7.5-8	1/11/2011	**0.26**	<0.0050	<0.0050	**0.0064**	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-3@9.5-10	9.5-10	1/11/2011	**110**	<0.0050	<0.0050	**0.27**	**0.80**	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-3@11.5-12	11.5-12	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-3@12.5-13	12.5-13	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-3@14.5-15	14.5-15	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-4@7.5-8	7.5--8	1/11/2011	**0.60**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-4@9.5-10	9.5-10	1/11/2011	**1.8**	<0.0050	<0.0050	**0.0051**	**0.011**	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-4@11.5-12	11.5-12	1/11/2011	**0.64**	<0.0050	<0.0050	**0.0057**	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-4@12.5-13	12.5-13	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-4@14.5-15	14.5-15	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-5@6.5-7	6.5-7	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-5@9.5-10	9.5-10	1/11/2011	**1.6**	<0.0050	<0.0050	**0.078**	**0.27**	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-5@13-13.5	13-13.5	1/11/2011	**2.3**	<0.0050	<0.0050	**0.20**	**0.44**	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--
DP-5@14.5-15	14.5-15	1/11/2011	<0.20	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	--	--

TPHg = Total Petroleum Hydrocarbons as Gasoline MTBE = methyl tert butyl ether TBA = tert butyl alcohol ETBE = ethyl tert butyl ether DIPE = diisopropyl ether EDB = ethylene dibromide 1,2-DCA = 1,2 Dichloroethane
bold = above laboratory indicated reporting limit

TABLE 2
HISTORICAL GRAB GROUNDWATER ANALYTICAL RESULTS
76 Service Station No. 0843/2349
1629 Webster St
Alameda, California

Sample ID	Depth	Date	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TBA (ug/L)	ETBE (ug/L)	TAME (ug/L)	DIPE (ug/L)	EDB (ug/L)	1,2-DCA (ug/L)	Ethanol (ug/L)	Sulfate (ug/L)	Manganese (ug/L)	Total Recoverable Manganese (ug/L)	Iron (ug/L)	DO (ug/L)	Non-Volatile Organic Carbon (ug/L)
W-5-MW-1	5	3/5/1999	**86.6**	<2.0	**2.04**	<2.0	**4.06**	**23.9**	--	--	--	--	--	--	--	--	--	--	--	--	--
W-5-MW-2	5	3/5/1999	**34,400**	**2,070**	**7,710**	**2,340**	**8,240**	**8,460**	--	--	--	--	--	--	--	--	--	--	--	--	--
W-4-MW-3	4	3/5/1999	**135**	<2.0	<2.0	<2.0	**4.84**	**2.46**	--	--	--	--	--	--	--	--	--	--	--	--	--
W-4-MW-4	4	3/5/1999	<50	<2.0	<2.0	<2.0	**2.44**	**25.2**	--	--	--	--	--	--	--	--	--	--	--	--	--
W-10-GP1	10	5/23/2001	<50	<0.50	<0.50	<0.50	<0.50	**3.7**	--	--	--	--	--	--	--	--	--	--	--	--	--
W-10-GP2	10	5/23/2001	<50	**1.1**	**0.67**	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	--	--	--	--	--
W-9-GP3	9	5/23/2001	<50	**1.2**	<0.50	**0.55**	**3.9**	<2.5	--	--	--	--	--	--	--	--	--	--	--	--	--
W-6-GP4	6	5/23/2001	<50	**0.7**	<0.50	<0.50	<0.50	**96**	--	--	--	--	--	--	--	--	--	--	--	--	--
W-10-GP5	10	5/23/2001	**2,100**	**39**	**16**	<5.0	**17**	**2,200**	--	--	--	--	--	--	--	--	--	--	--	--	--
W-7-GP-14	7	12/14/2001	<50	<0.50	<0.50	<0.50	<0.50	**6.4**	--	--	--	--	--	--	--	--	--	--	--	--	--
W-7-GP15	7	12/14/2001	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	--	--	--	--	--
W-7-GP16	7	12/14/2001	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	--	--	--	--	--	--	--	--	--
CPT-1-25	25	8/14/2008	**6,500**	<5.0	<5.0	<5.0	<10	**21,000**	<100	<5.0	**17**	<5.0	<5.0	<5.0	--	--	--	--	--	--	--
CPT-1-35	35	8/14/2008	<250	<2.5	<2.5	<2.5	<5.0	**260**	<50	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	--
CPT-1-45	45	8/14/2008	<50	<0.50	<0.50	<0.50	<1.0	**1**	<10	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--
CPT-1-55	55	8/14/2008	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--
MW-1AR	--	5/14/2009	<50	<0.50	<0.50	<0.50	**<1.0**	**2.4**	<10	<0.50	<0.50	<0.50	--	<0.50	<250	**33**	**59**	**67**	**330**	**9.8**	**2.1**
MW-8	--	5/14/2009	**650**	**1.4**	<0.50	**11**	**6.2**	**4.4**	<10	<0.50	<0.50	<0.50	--	<0.50	<250	**23**	**900**	**1,200**	<100	**7**	**3.6**
MW-9	--	5/14/2009	**1,900**	<0.50	<0.50	**74**	**250**	**40**	<10	<0.50	<0.50	<0.50	--	<0.50	<250	**38**	**180**	**240**	**230**	**3.5**	**2.2**
TSP-1	--	5/14/2009	<50	<0.50	<0.50	<0.50	<1.0	**7.1**	<10	<0.50	<0.50	<0.50	--	<0.50	<250	**46**	**24**	**330**	**170**	**7.6**	**4.2**
DP-1@18	18	1/11/2011	<50	<0.50	<0.50	<0.50	<1.0	**20**	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--
DP-2@12	12	1/11/2011	**5600**	<2.5	<2.5	**84**	**85**	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<1200	--	--	--	--	--	--
DP-2@18	18	1/11/2011	**110**	<0.50	<0.50	**0.67**	**1.5**	**17**	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--
DP-3@12	12	1/11/2011	**1300**	<0.50	**0.55**	**100**	**75**	**10**	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--
DP-3@18	18	1/11/2011	**99**	<0.50	<0.50	**1.1**	**1.6**	**41**	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--
DP-4@18	18	1/11/2011	**50**	<0.50	<0.50	<0.50	**1.1**	**2.1**	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--
DP-5@12	12	1/11/2011	**17000**	**6.8**	**7.0**	**1200**	**3700**	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<1200	--	--	--	--	--	--
DP-5@18	18	1/11/2011	**980**	<0.50	<0.50	**70**	**68**	**12**	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--

TPHg = Total Petroleum Hydrocarbons as Gasoline MTBE = methyl tert butyl ether TBA = tert butyl alcohol ETBE = ethyl tert butyl ether DIPE = diisopropyl ether EDB = ethylene dibromide 1,2-DCA = 1,2 Dichloroethane
bold = above laboratory indicated reporting limit

APPENDIX A

ACHCSA Approval Letter, Dated October 4, 2010

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

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

October 4, 2010

Bill Borgh
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Sam and Michele Koka
802 Pacific Avenue
Alameda, CA 94501

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

Dear Mr. Borgh and Mr. and Mrs. Koka:

Thank you for the recently submitted document entitled, *Corrective Action Plan* dated April 7, 2010, and *Work Plan for Additional Assessment* dated August 24, 2010 which were prepared by Delta Consultants for the subject site. Alameda County Environmental Health (ACEH) staff has reviewed the case file including the above-mentioned report/work plan for the above-referenced site. The corrective action plan presents three active remediation alternatives and monitored natural attenuation and recommends ozone /oxygen injection as the most appropriate and cost-effective technology for site remediation. The Work plan for additional assessment shows the proposed injection points and the proposed locations for soil sampling to define the source area to be removed and to ensure that source removal is necessary.

The proposal to perform ozone/oxygen injection as the primary remediation alternative presented in the above-mentioned Corrective Action Plan (CAP) with locations shown in the work plan is acceptable. Subsequent excavation will depend on the results of the proposed borings and will be evaluated and approved if warranted after that data is obtained. At this time, public participation is a requirement for the CAP process. Therefore, ACEH will notify potentially affected stakeholders who live or own property in the surrounding area of the proposed remediation described in the *Corrective Action Plan* and *Work Plan for Additional Assessment* through mailing of a fact sheet (enclosed). Public comments on the proposed remediation will be accepted for a period of thirty days beginning Monday, October 4, 2010 through Wednesday, November 3, 2010. Following the public comment period, the comments received including ACEH's comments described below, must be addressed and incorporated into a Final CAP.

TECHNICAL COMMENTS

1. **Groundwater Contaminant Plume Monitoring** – Please add Chromium VI to the monitoring schedule as well as the other listed constituents for the affected wells (MW-1, MW-7, MW-8, MW-9 MW-10 and MW-11).

NOTIFICATION OF FIELDWORK ACTIVITIES

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

TECHNICAL REPORT REQUEST

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

- **November 3, 2010** – End of 30-day Public Participation Period
- **December 30, 2010** – Quarterly Monitoring Report (4th Quarter 2010)
- **March 30, 2011** – Quarterly Monitoring Report (1st Quarter 2011), SWI and Excavation Evaluation
- **June 30, 2011** – Quarterly Monitoring Report (2nd Quarter 2011)
- **September 30, 2011** – Quarterly Monitoring Report (3rd Quarter 2011)

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

Sincerely,

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

Enclosures: Fact Sheet and List of Recipients
Responsible Party(ies) Legal Requirements/Obligations
ACEH Electronic Report Upload (ftp) Instructions

cc: James Barnard, Delta Consultants, 11050 White Rock Rd., Suite 110 Rancho Cordova, CA 95670 (Sent via e-mail to: jbarnard@deltaenv.com)
Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Barbara Jakub, ACEH (*Sent via E-mail to: barbara.jakub@acgov.org*)
Peter Russel, Russell Resources, Inc., 440 Albion Way, Ste.1, San Rafael, CA 94903 (Sent via E-mail to: peter@russellresources.com)
GeoTracker, File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
Alex Briscoe, Agency Director

FACT SHEET ON ENVIRONMENTAL ASSESSMENT

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

UNOCAL#0843
1629 Webster Street, Alameda, CA 94501
Fuel Leak Case No. RO0000450 and
GeoTracker Global ID T0600102263

Site Remediation Summary

This fact sheet has been prepared to inform community members and other interested stakeholders regarding the status of a proposed soil and groundwater cleanup at the former ARCO located at 1629 Webster St., Alameda, California. Mr. Borgh, the lead responsible party for the fuel leak case is proposing ozone/oxygen injection and potential limited soil excavation as remediation technologies to cleanup the site.

Site Background

The site is located in the Webster Street commercial area of Alameda. It was previously operated as a Unocal gasoline station but is now currently a vacant lot. Plans to redevelop the property to senior housing with first floor commercial retail have been approved by the City of Alameda and await completion of remediation at the site.

Remediation Alternative: Ozone/oxygen Injection with Potential for Excavating Source Area Soils

Ozone/oxygen injection is proposed to remediate groundwater contaminated with MTBE at the site. The MTBE plume is located beneath the site at a depth of between 20 to 30 feet below ground surface (bgs). The proposed remediation will inject ozone into the plume which then reacts with the MTBE and forms carbon dioxide and water, thus destroying the MTBE. The proposal would include injecting ozone/oxygen at six different points located throughout the site for an estimated 3 to 6 months. Typically no additional infrastructure is needed to install this system.

Soil Excavation and Removal

The remediation proposal includes an evaluation of soil in the area of the former USTs. Soil borings would be advanced and samples collected to determine the extent of residual contamination. If contamination levels warrant, the soil will be excavated and removed from the site and disposed at an appropriate landfill.

Next Step

Mr. Borgh is working with Alameda County Environmental Health (ACEH) to implement a soil and groundwater cleanup at the site. The proposed alternative is described in the reports *Corrective Action Plan dated* April 7, 2010 and *Work Plan for Additional Assessment* dated August 24, 2010 prepared by Delta Consultants on behalf of Mr. Borgh. The public is invited to review and comment on the proposed cleanup action. The reports are available on ACEH's website (http://www.acgov.org/aceh/lop/ust.htm) or the State Water Resources Control Board's GeoTracker website (http://www.geotracker.waterboards.ca.gov/). The report and case file are also available for review at the ACEH located at 1131 Harbor Bay Parkway in Alameda, California. Please send a fax to 510-337-9335 to request a date and time to review the case file. Please send written comments regarding the corrective action to Barbara Jakub at the address below. All written comments received by **November 3, 2010** will be forwarded to the Responsible Party and will be considered and responded to prior to a final determination on the proposed cleanup.

For Additional information, please contact:

Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway, Ste 250
Alameda, CA 94502
Phone: 510-639-1287
E-mail: barbara.jakub@acgov.org

James Barnard
Delta Environmental, Inc.
11050 White Rock Rd., Suite 110
Rancho Cordova CA 95670
Phone: 916-503-1279
E-mail: jbarnard@deltaenv.com


Traffic
More...
Map
Satellite
N
Pacific Ave
Kelly-Moore Paint
Curves
260
260
Subway
700
SK Auto
A
Hawthorn Suites Oakla
Eyes On Webster
Star Lights Donut
KB Hair Salon
Tinys
Wally's Corner
1600
Lincoln Ave
Shell of Alameda

ALAMEDA HOSPITALITY LLC
Parcel #: 73-418-4-1
1628 WEBSTER ST
ALAMEDA CA 94501

CAMPOS JOSE J & SOCORRO
Parcel #: 74-430-3-1
1438 39TH AVE
OAKLAND CA 94601

EQUILON ENTERPRISES LLC
Parcel #: 74-430-5-1
PO BOX 4369
HOUSTON TX 77210

KOKA SAM & MICHELLE J
Parcel #: 74-430-1-1
802 PACIFIC AVE
ALAMEDA CA 94501

LAU PETER K & MIRASOL Y
Parcel #: 74-430-6
643 LINCOLN AVE
ALAMEDA CA 94501

LEE SHUN M & LUCIA L
Parcel #: 74-430-7
639 LINCOLN AVE
ALAMEDA CA 94501

RESIDENT
Parcel #: 73-417-12-1
1700 WEBSTER ST
ALAMEDA CA 94501

RESIDENT
Parcel #: 74-430-5-1
1607 WEBSTER ST
ALAMEDA CA 94501

RESIDENT
Parcel #: 74-430-34-2
640 PACIFIC AVE
ALAMEDA CA 94501

RESIDENT
Parcel #: 74-430-1-1
650 PACIFIC AVE
ALAMEDA CA 94501

RESIDENT
Parcel #: 74-431-5
643 PACIFIC AVE
ALAMEDA CA 94501

RESIDENT
Parcel #: 74-431-4
1711 WEBSTER ST
ALAMEDA CA 94501

RESIDENT
Parcel #: 74-430-3-1
1619 WEBSTER ST
ALAMEDA CA 94501

SAYON CHARLES J &
Parcel #: 74-430-8
637 LINCOLN AVE
ALAMEDA CA 94501

TIMBER DELL PROPERTIES
Parcel #: 74-431-4
1406 WEBSTER ST
ALAMEDA CA 94501

TIMBER DELL PROPERTIES
Parcel #: 74-431-5
1406 WEBSTER ST
ALAMEDA CA 94501

WONG RODNEY & SHARON
Parcel #: 74-430-34-2
619 HAIGHT AVE
ALAMEDA CA 94501

YANG ESTHER M TR
Parcel #: 73-417-12-1
P O BOX 20218
EL SOBRANTE CA 94820

Responsible Party(ies) Legal Requirements/Obligations

REPORT REQUESTS

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

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

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

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

Historical Boring Logs

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: B1/MW1 Plate: APPENDIX
Site: Former Tosco 76 Service Station 0843 Date: 3/2/99
Drill Contractor: Woodward Drilling
Sample Method: Split Spoon Geologist: MARK S. DOCKUM
Drill Rig: B57 Bore Hole Diameter: 8" Signature:
Location: South End of Site Approximately 50 Feet West of Southern Driveway Registration: R.G. 4412
Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" asphalt	
					SP	Sand, trace of silt, yellowish brown, moist	
5	5	0					
						Sands, trace of silt and some clay, brown, moist, some plasticity	
10	38	0			SC		
						Sand, trace of silt, light yellowish brown, wet	
15	35	0			SP		
						sand, trace of silt, olive, wet	
20	40	0					
						Total depth at 20.5 feet. Groundwater encountered at 12 feet. Static groundwater encountered at 5.8 feet.	

Casing Diameter: 2" Slot Size: 0.020 , Sand Size: #3 , Grout: Portland I,II

FN: 2248B001

Project No.: 2248 Boring: B2/MW2 Plate: APPENDIX
Site: Former Tosco 76 Service Station 0843 Date: 3/2/99
Drill Contractor: Woodward Drilling
Sample Method: Split Spoon Geologist: MARK S. DOCKUM
Drill Rig: B57 Bore Hole Diameter: 8" Signature:
Location: Northeast Corner of Site Approximately 10 Feet North of East Dispenser Registration: R.G. 4412
Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						Sand, fine-grained, trace of silt, yellowish brown, very moist	
5	2	0					
					SP	sand, trace of silt, olive gray, very moist	
10	27	1023				sand, trace of silt, dark yellowish brown, wet	
15	43	46				sand, trace of silt, light olive yellow, wet	
20	86	9					
						Total depth at 20.5 feet. Groundwater encountered at 8.5 feet. Static groundwater encountered at 5.3 feet.	

Casing Diameter: 2" Slot Size: 0.020 , Sand Size: #3 , Grout: Portland I/II

FN: 2248B002

Project No.: 2248 Boring: B3/MW3 Plate: APPENDIX
Site: Former Tosco 76 Service Station 0843 Date: 3/2/99
Drill Contractor: Woodward Drilling
Sample Method: Split Spoon Geologist: MARK S. DOCKUM
Drill Rig: B57 Bore Hole Diameter: 8" Signature:
Location: North Center in the Planter Approximately 1 Foot South of the Sidewalk Registration: R.G. 4412
Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" planter soil	
						Silt, trace of sand and clay, fine-grained, dark yellowish brown, very moist, some plasticity	
5	5	0			ML		
10	35	0					
15	20	1				silt, trace of sand, fine-grained, dark yellowish brown, wet, no plasticity	
20	37	7				very moist	
						Total depth at 20.5 feet. Groundwater encountered at 12 feet. Static groundwater encountred at 4.9 feet.	

Casing Diameter: 2" Slot Size: 0.020 , Sand Size: #3 , Grout: Portland I,II

FN: 2248B0C3

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: B4/MW4 Plate: APPENDIX
Site: Former Tosco 76 Service Station 0843 Date: 3/2/99
Drill Contractor: Woodward Drilling
Sample Method: Split Spoon Geologist: MARK S. DOCKUM
Drill Rig: B57 Bore Hole Diameter: 8" Signature:
Location: Northeast Corner of Site Approximately 13 Feet South of Driveway Registration: R.G. 4412
Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" asphalt at top	
5	10	▽ 0			ML	silt, trace of sands, fine-grained, gravel and clay 0.5", dark yellowish brown, moist, some plasticity	
10	50	5				olive, very moist	
15	33	0 ▼				light olive brown, wet, no plasticity	
20	35	0				Total depth at 20.5 feet. Groundwater encountered at 15 feet. Static groundwater encountered at 4.7 feet.	

Casing Diameter: 2" Slot Size: 0.020 , Sand Size: #3 , Grout: Portland 1 II

FN: 2248B004

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: MW5 Plate: APPENDIX

Site: Former Tosco 76 Service Station 0843 Date: 12/8/99

Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: MARK S. BOCKUM

Drill Rig: B57 Bore Hole Diameter: 8" Signature:

Location: 6.3 Feet from Curb 215 North and 95 Feet East of Northeast Site Boundary Registration: R.G. 4412

Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						1' asphalt Fill, sand	
5	9	0			CL	*Sand with some clay, olive gray, moist, slight plasticity, (25% clay, 75% sand), very fine-grained	
10	26	0			SM	Sand with some silt, yellowish orange, (25% silt, 75% sand), very fine-grained, wet, red staining	
15	36	0				same as above	
20	50	0				same as above	

Total depth at 21.5 feet.
First encountered groundwater at 10 feet.
Static groundwater at 6.9 feet.

*Soil description modified following field work.
Original field log available upon request from ERI.

Casing Diameter: 2" Slot Size: .010 , Sand Size: 2/12 , Grout: Portland I/II

FN: 2248B006

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: MW6 Plate: APPENDIX

Site: Former Tosco 76 Service St. on 0843 Date: 12/8/99

Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: MARK S. DOCKUM

Drill Rig: B57 Bore Hole Diameter: 8" Signature: Mark S. Dockum

Location: 6.5 Feet from Curb 130 Feet North and 18 Feet East of Northeast Site Boundary Registration: R.G. 4412

Logged by: Dylan Crouse

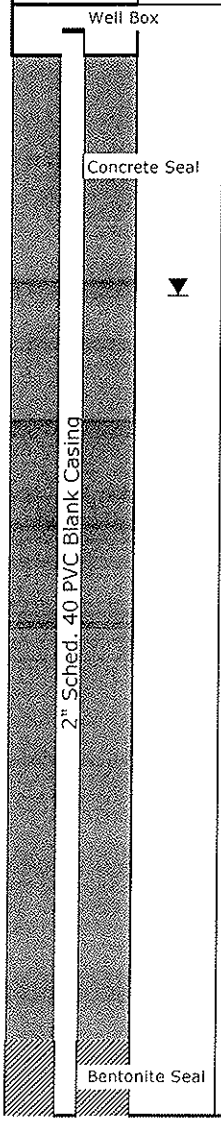
DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6" asphalt, 6" concrete	
						Fill, sand with some gravel	
5	8					no recovery	
						Sand with some silt, yellowish orange, (25% silt, 75% sand), very fine-grained, wet	
10	21	▼ 5			SM	same as above	
15	19	28				same as above	
20	80	3				same as above	
						Total depth at 21.5 feet. First encountered groundwater at 9.8 feet.	

Casing Diameter: 2" Slot Size: 0.010 , Sand Size: 2/12 , Grout: Portland I,II

FN: 22480006

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"	▽ = First Water
Sampling Method: Split Spoon	Hole Depth: 35'	▼ = Static Groundwater
Casing Type: Sched. 40 PVC	Well Diameter: 2"	
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
1–4				Air-Knife				Silty sand; trace clay with gravel.
5	moist	0.0					SM	Silty sand; light brown.
7							SM	Same as above.
9							SM	Same as above.
10	moist	0.1					SM	Silty sand with gravel; dark brown.
12							SM	Silty sand; light brown
15	wet	1.3					SM	Same as above.
20	sat.	2.9		11:23 @ 20'			SM	Encountered heaving sands to total depth of boring.

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'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	30.5'
Gravel Pack:	Filter Sand	First Water Depth:	N/A

▽ = 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			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

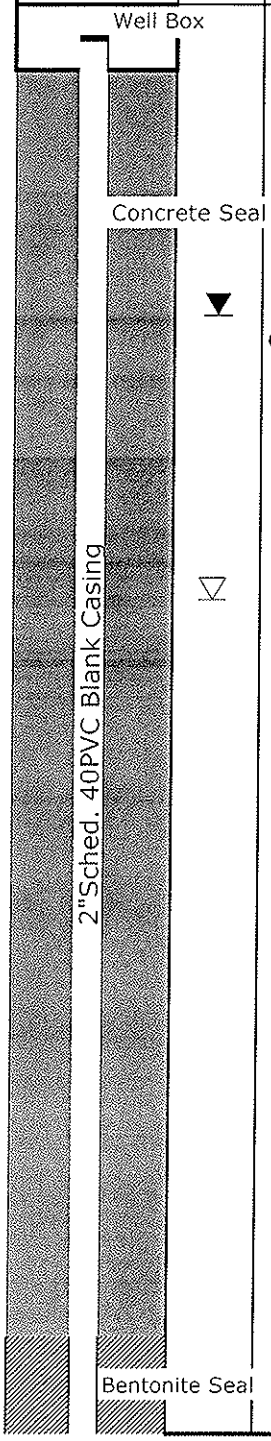
Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23				
						24				
						25				Continuation of heaving sands to total depth of boring.
						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
Page **1** of **2**

▽ = 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	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Filter Sand		Sat.	8.3		25			SC	Clayey sand; green to gray.
		Sat.	8.0		30			SC	Clayey sand; green to gray.
									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

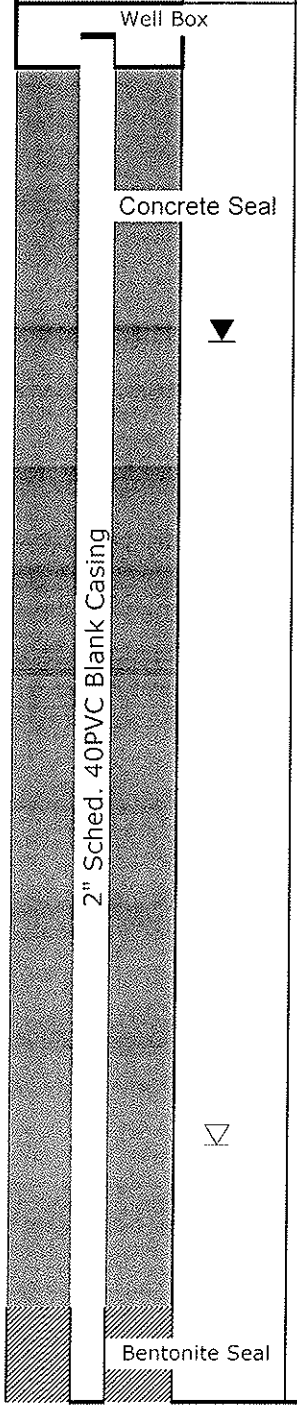
Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
Logged By:	Caitlin Morgan	Location:	**1629 Webster Street**
Driller:	**RSI Drilling**		**Alameda, 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

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting



Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
					Air-Knife	1–4			SW	Well graded sand with clay and gravel, trace roots.
	▼	moist	0.2			5–7			SW	Well graded sand with clay and gravel, trace roots; dark brown.
		moist	0.2			8–9			SW-SM	Well graded sand with silt, trace clay. More moist than above.
		moist	0.2			10–14			SW-SM	Same as above. Slight odor.
		wet	3.1		12:36 @ 15'	15–16			SC	Clayey sand, trace roots; gray; more moist than above; slight odor.
						17			SC	Same as above. Some brown mottling; less clay.
	▽	sat.				18–19			SW-SM	Well graded sand with silt, trace clay.
		sat.	0.5			20–22			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, 26, 27, 28, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44				

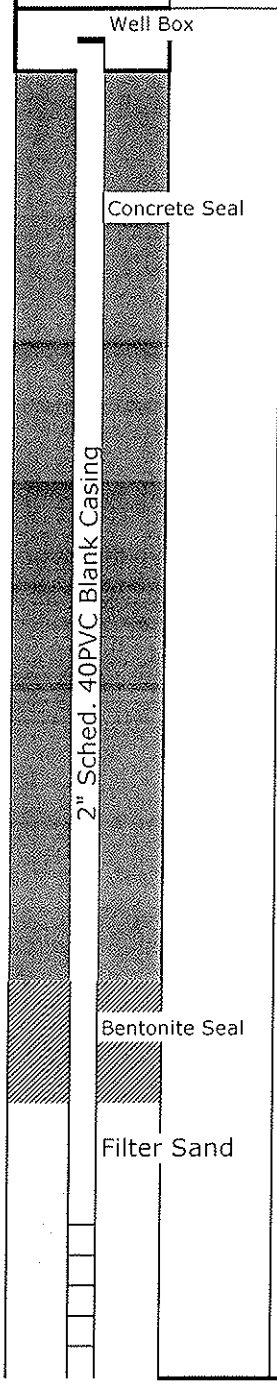
Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**	Well No:	**MW-9**
Logged By:	Caitlin Morgan	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:	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		

▽ = First Water

▼ = Static Groundwater

Elevation	Northing	Easting



Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
			Air-Knife	1–4			SW-SM	Well graded sand with silt and gravel; brown.
moist	18			5–9			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	10–14			SW-SC	Same as above; more clay. Greenish gray; strong petroleum hydrocarbon odor.
moist	520			15–18			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			19–22			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

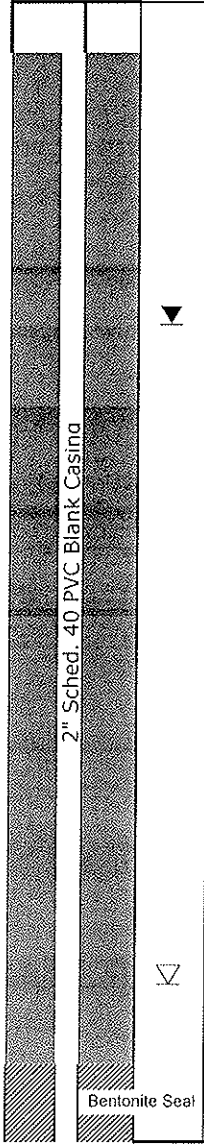
▽ = First Water
▼ = Static Groundwater

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			**SW-SM**	Well graded sand with silt, trace clay; brown to light brown; moist; low odors.
					24				
					25				**Total Depth of Boring = 25 Feet Below Ground Surface (bgs)**
					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**	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'	▽ = First Water
Casing Type:	Sched. 40 PVC	Well Diameter: 2"	▼ = Static Groundwater
Slot Size:	0.02	Well Depth: 30'	
Gravel Pack:	Filter Sand	First Water Depth: 19'	
Elevation		Northing	Easting



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				

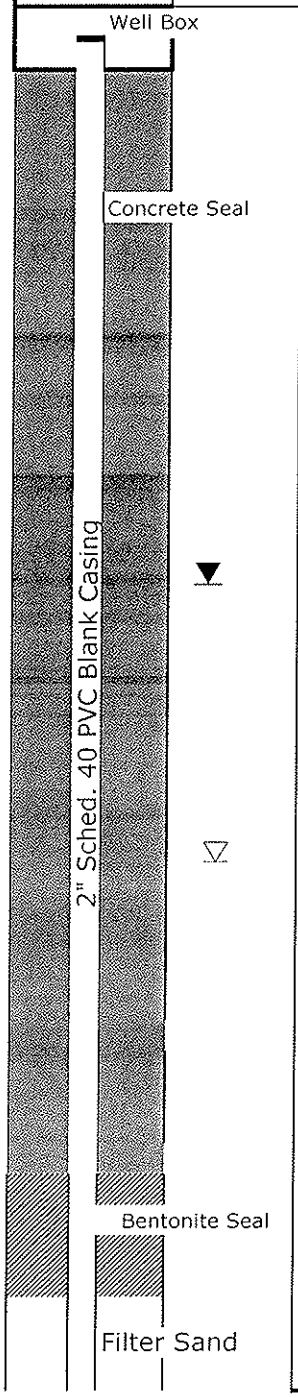
Delta
Consultants

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

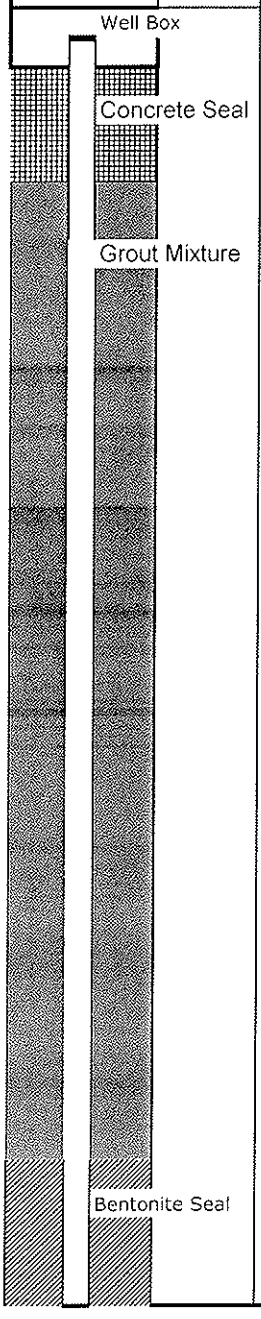
Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
		sat.	1.3		23–27			SC	Sandy clay with silt; gray; slight odor.
					28				**Total Depth of Boring = 28 Feet Below Ground Surface (bgs)**
					29–44				

Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
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' 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

Well No: **TSP-1**
Date Drilled: 5/14/2009

▽ = First Water
▼ = Static Groundwater



Depth (feet)	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
1–4				Air-Knife				
5	moist	0.4					SW	Well graded sand, trace fine gravel; brown.
8–9	moist						SW-SM	Fine to medium sand, with trace silt; light brown.
10–11		0.3					SW-SM	Same as above; trace clay.
12	wet						SM	Silty sand; medium firmness.
15		0.5					SM	Same as above.
20	sat.	3.2	9:10 @ 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

Project No.: 224803 Boring: GP1 Plate: 1 OF 1
Site: Former Tosco 76 Service Station 0843 Date: 5/23/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct-Push Geologist: John B. Bobbitt
Drill Rig: Maryl 25 Key Bore Hole Diameter: 2" Signature:
Location: Western side of Webster Street on southern property line Registration: R.G. 4313
Logged by: Rob Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6-inches of asphalt	
5		0			SP	Sand, medium-grained, brown, well sorted, trace of silt, wet at 4 feet	
10							
						Total depth at 12 feet bgs.	
						Boring grouted to ground surface.	
15							
20							
25							
30							
35							
40							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland I, II

FN: 2248gp1

Project No.: 224803 Boring: GP2 Plate: 1 OF 1
Site: Former Tosco 76 Service Station 0843 Date: 5/23/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct-Push Geologist: John B. Bobbitt
Drill Rig: Maryl 25 Key Bore Hole Diameter: 2" Signature:
Location: Approximately 60 feet north of GP1 Registration: R.G. 4313
Logged by: Rob Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6-inches of asphalt	
					SP		
5		0 ▽				Sand medium-grained, brown, well sorted, trace of silt, wet at 5 feet	
						6 to 8 feet slightly stained blue-green	
						Same, brown	
10		0					
						Total depth at 12 feet bgs.	
						Boring grouted to ground surface.	
15							
20							
25							
30							
35							
40							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland I/II

FN: 2248gw2

Project No.: 224803 Boring: GP3 Plate: 1 OF 1

Site: Former Tosco 76 Service Station 0843 Date: 5/23/01

Drill Contractor: Gregg Drilling & Testing, Inc.

Sample Method: Direct-Push Geologist: John B. Bobbitt

Drill Rig: Maryl 25 Key Bore Hole Diameter: 2" Signature:

Location: Adjacent to curb on Southwest corner of Webster Street and Pacific Avenue Registration: R.G. 4313

Logged by: Rob Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6-inches of asphalt	
					SP		
5		0 ▽				Sand, medium-grained, brown, well sorted, trace of silt, wet at 5 feet	
						At 6 feet blue-green color	
10						Unable to get soil from sampler	
						Total Depth 12 feet	
						Boring grouted to ground surface.	
15							
20							
25							
30							
35							
40							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland I/II

FN: 2248gp3

Project No.: 224803 Boring: GP4 Plate: 1 OF 1
Site: Former Tosco 76 Service Station 0843 Date: 5/23/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct-Push Geologist: John R. Robbitt
Drill Rig: Maryl 25 Key Bore Hole Diameter: 2" Signature:
Location: Adjacent to th curb on southern side of Pacific Avenue Registration: R.G. 4313
Logged by: Rob Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6 inch asphalt	
					SP		
5		0 ▽				Sand, medium-grained, well-sorted, trace of silt, wet at 5 feet, at 6 feet green color	
						Same, at 8 feet brown color	
10		124				Same	
						Total depth at 12 feet bgs.	
						Boring grouted to ground surface.	
15							
20							
25							
30							
35							
40							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland I/II

FN: 8248gp4

Project No.: 224803 Boring: GP5 Plate: 1 OF 1
Site: Former Tosco 76 Service Station 0843 Date: 5/23/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct-Push Geologist: John P. Bobbitt
Drill Rig: Maryl 25 Key Bore Hole Diameter: 2" Signature:
Location: Adjacent to curb on northern side of Pacific Avenue Registration: R.G. 4313
Logged by: Rob Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6-inches of asphalt	
					SP		
5		0 ▽				Sand, medium-grained, brown, well-sorted, trace of silt, wet at 5 feet	
						Bluish-green at 6 feet, strong odor	
10		106					
						Total depth at 12 feet bgs.	
						Boring grouted to ground surface.	
15							
20							
25							
30							
35							
40							

Casing Diameter: N/A Slot Size: N/A , Sand Size: N/A , Grout: Portland I/II

FN: 2248gp5

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP6 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Bobbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 7' South of MW2 Registration: R.G. 4313
Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (PPM)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					FL	Fill to 3'	
5	▽				SP	Sand: fine grained, brown, damp, sub-rounded poorly graded wet at 7' blueish gray from 7' to 8'	
10						Total depth: 8 feet	

Casing Diameter: NA Slot Size: NA, Sand Size: NA, Grout: Portland I,II

FN: 2248GP6

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP7 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Bobbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 7' West of MW2 Registration: R.G. 4313
Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
5		0			SP	Sand: fine grained, brown, damp, sub-rounded, poorly graded	
	▽	0				wet	
10						Total depth = 8 feet	

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I/II

FN: 2248GP7

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP8 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Bobbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 7' North of MW2 Registration: R.G. 4313
Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						Sand: fine grained, brown, damp, sub-rounded, poorly graded	
		0			SP		
5							
	▽	0				wet at 6.5'	
						blueish green from 7' to 8'	
						Total depth = 8 feet	
10							

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I,II

FN: 2248GP8

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP9 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Babbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 7' East of MW2 Registration: R.G. 4313
Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
5	▽				SP	Sand: fine grained, brown, damp, sub-rounded, poorly graded wet at 6.5' blueish green from 7' to 8'	
10						Total depth = 8 feet	

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I,II

FN: 2248GP9

Project No.: 2248 Boring: GP10 Plate: 1 OF 1

Site: Former Tosco Service Station 0843 Date: 12/4/01

Drill Contractor: Gregg Drilling & Testing, Inc.

Sample Method: Direct Push Geologist: John B. Bobbitt

Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:

Location: 15' South of MW2 Registration: R.G. 4313

Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					FL	Fill to 3'	
		0				Sand: fine grained, brown, damp sub-rounded poorly graded	
5					SP		
	▽	0				wet at 7' slight blue-green staining from 7' to 8'	
						Total depth = 8 feet	
10							

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I/II

FN: 2248GP10

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP11 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Bobbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 15' West of MW2 Registration: R.G. 4313
Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					SP	Sand: fine grained, brown, damp, sub-rounded, poorly graded	
5		0					
	▽	0				wet at 7' slight blue-green staining from 7' to 8'	
						Total depth = 8 feet	
10							

Casing Diameter: NA Slot Size: NA, Sand Size: NA, Grout: Portland I,II

FN: 2248GP11

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP12 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Babbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 15' North of MW2 Registration: R.G. 4313
Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
0						Sand: fine grained, brown, damp, sub-rounded, poorly graded	
5	▽				SP	wet at 6.5' blueish green at 7'	
10							
15						brown at 15'	
						Total depth = 16 feet	

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I,II

FN: 2248GP12

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP13 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Bobbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 15' East of MW2 Registration: R.G. 4313
Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
5	▽				SP	Sand: fine grained, brown, damp, sub-rounded, poorly graded wet at 7' slight blueish green from 7' to 8'	
10						Total depth = 8 feet	
15							

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I,II

FN: 2248GP13

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP14 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Babbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 10' Southeast of MW4 Registration: R.G. 4313
Logged by: Rob A. Saur

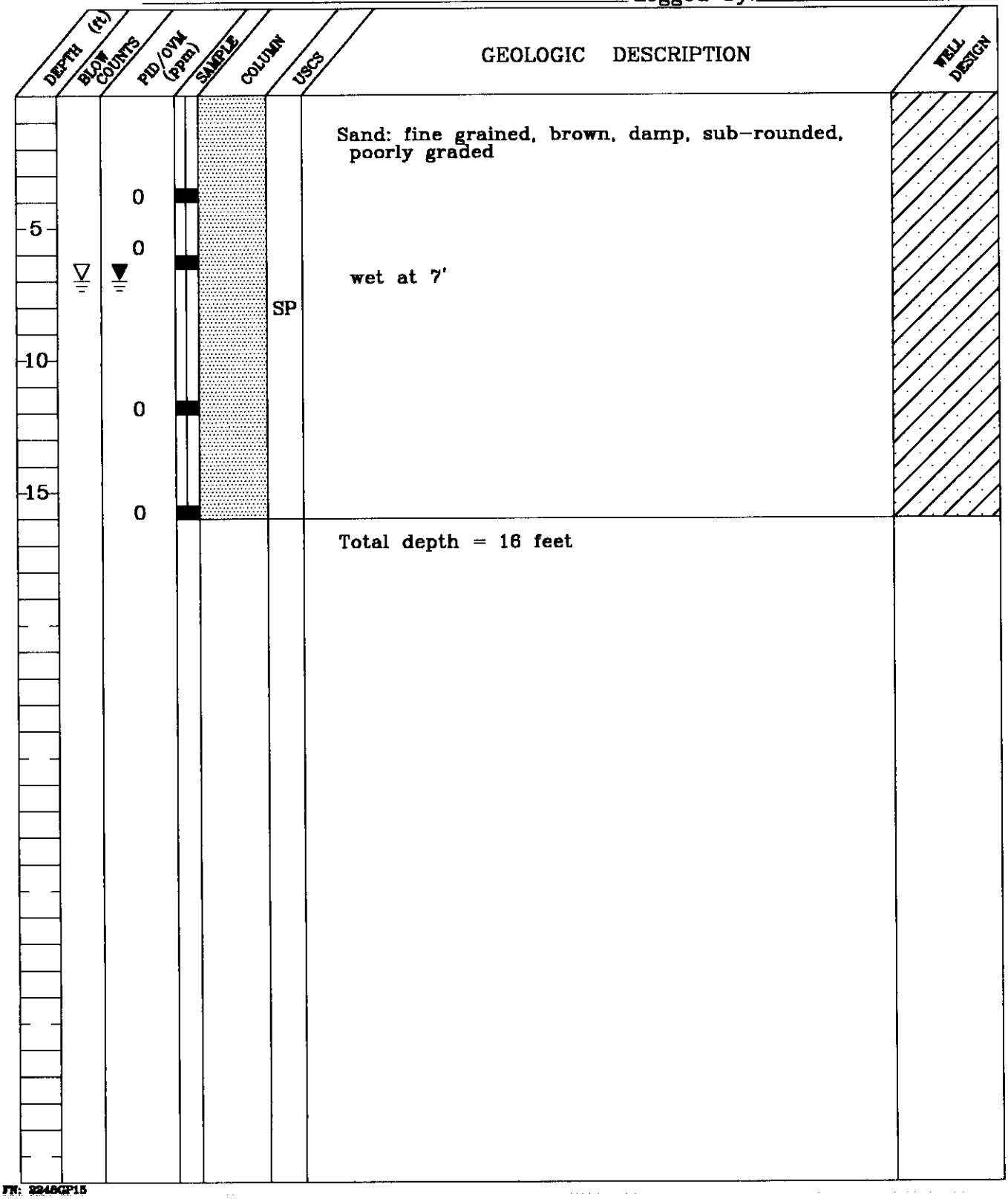
DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
5		0			SP	Sand: fine grained, brown, damp, sub-rounded, poorly graded	
	▽	▼0				wet at 7.5'	
10						Total depth = 8 feet	

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I,II

FN: 2248GP14

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP15 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Robbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 30' Southeast of MW4 Registration: R.G. 4313
Logged by: Rob A. Saur



Casing Diameter: NA Slot Size: NA, Sand Size: NA, Grout: Portland I,II

FN: 2248GP15

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP16 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Bobbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 30' Southwest of MW1 Registration: R.G. 4313
Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
		0			SP	Sand: fine grained, brown, damp, sub-rounded, poorly graded	
5	▽	0				wet at 7'	
10		0				very slight blueish-green tint from 10' to 11' brown	
15		0				Total depth = 16 feet	

Casing Diameter: NA Slot Size: NA , Sand Size: NA , Grout: Portland I,II

FN: 2248GP16

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: GP17 Plate: 1 OF 1
Site: Former Tosco Service Station 0843 Date: 12/4/01
Drill Contractor: Gregg Drilling & Testing, Inc.
Sample Method: Direct Push Geologist: John B. Bobbitt
Drill Rig: Marl 2.5 Bore Hole Diameter: 2" Signature:
Location: 10' Southeast of MW3 Registration: R.G. 4313
Logged by: Rob A. Saur

DEPTH (ft)	BLOW COUNTS	PID/OVM (Ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
5	▽				SP	Sand: fine grained, brown, damp, sub-rounded, poorly graded wet at 7'	
10						Total depth = 8 feet	

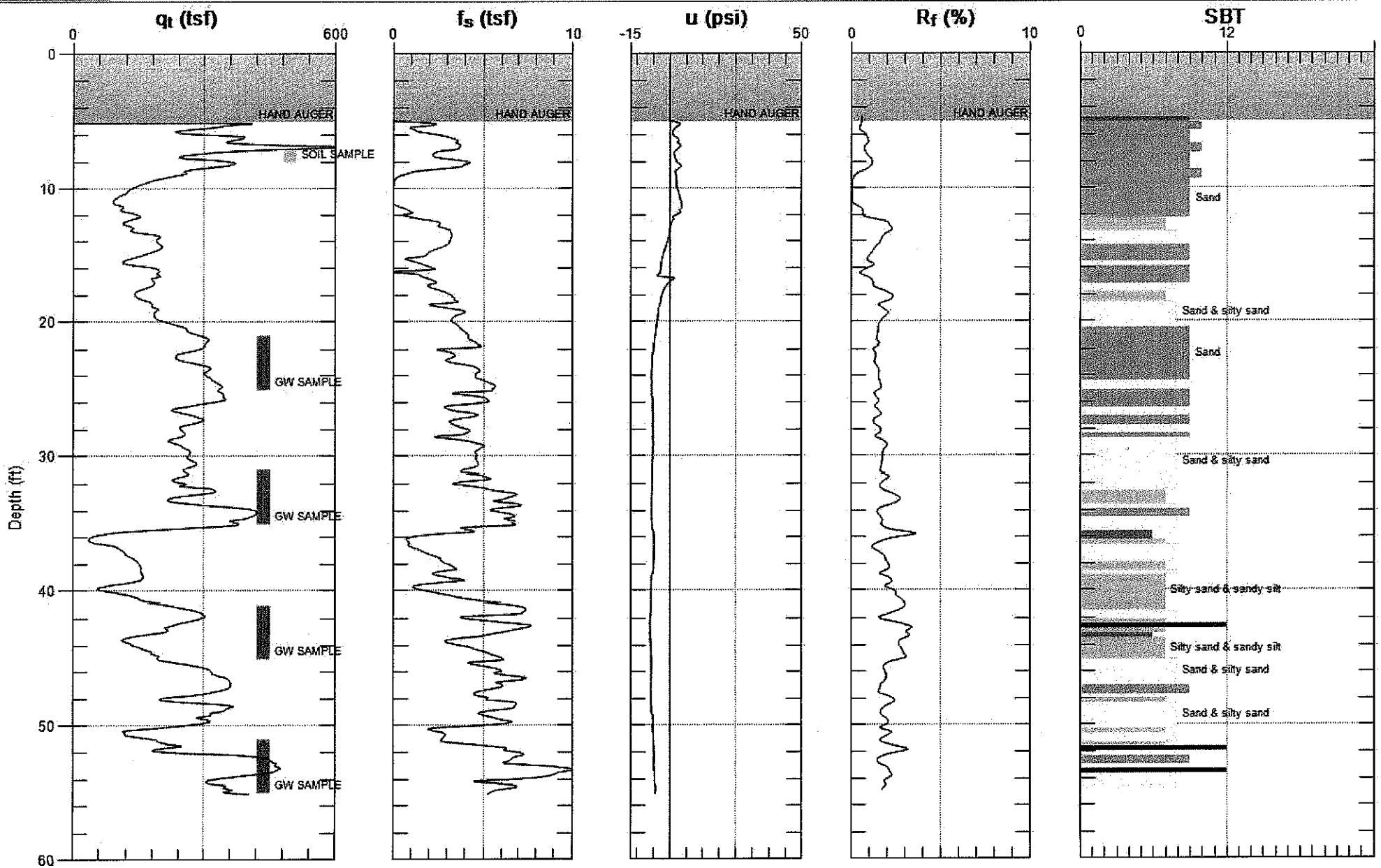
Casing Diameter: NA Slot Size: NA, Sand Size: NA, Grout: Portland I,II

FN: 2248GP17

DELTA CONSULTANTS

Site: 0843 ALAMEDA
Sounding: CPT-01

Engineer: J.WELSH
Date: 8/14/2008 08:21



Max. Depth: 55.118 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

anteagroup	Project No: C102349220	Client: ConocoPhillips	Boring/Well No: **DP-1**
	Logged By: A. Buehler/C. Morgan	Location: Alameda, CA	Page 1 of 1
	Driller: Gragg Drilling & Testing	Date Drilled: 1/11/11	Site Address:
	Drilling Method: Direct Push	Hole Diameter: 2"	1629 Webster St, Alameda, CA
	Sampling Method: GeoProbe	Hole Depth: 15'	
	Casing Type: N/A	Well Diameter: N/A	
	Slot Size: N/A	Well Depth: N/A	
	Gravel Pack: N/A	▼ First Water Depth:	
		▽ Static Water Depth:	
	Elevation:	Northing:	Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1				Air-Knife cleared to 5 feet bgs.
					2				Well graded sand with gravel and trace clay, brown/ light brown, some brick fill in top 1-2', no utilities encountered
					3				
					4				
					5				
					6			SW-SM	Brown, well graded sand with silt and gravel, 10% silt, 30% gravel
			1.6	DP-1@ 6.5-7	7				
	▼				8				
		wet			9			SW-SM	Brown, well graded sand with silt and gravel, 10% silt, 20% gravel, saturated
		wet		DP-1@ 10-10.5	10			GW	Brown, well graded gravel, 1/8" gravel, saturated
			1.1	DP-1@ 11.5-12	11				
					12			SM	Brown, silty sand, 30% silt
			1.2	DP-1@ 13-13.5	13			SW-SM	Brown, well graded sand with silt and gravel, 10% silt, 30% gravel
					14			SM	Green/gray, silty sand, 20 % silt, very dense, damp
Neat Cement Grout			0.8	DP-1@ 14.5-15	15				
					16				Total Depth = 15 feet
					17				
					18				
					19				
					20				
					21				
					22				

Project No: C102349220	Client: ConocoPhillips	Boring/Well No: **DP-2**
Logged By: A. Buehler/C. Morgan	Location: Alameda, CA	Page 1 of 1
Driller: Gragg Drilling & Testing	Date Drilled: 1/11/11	
Drilling Method: Direct Push	Hole Diameter: 2"	Site Address:
Sampling Method: GeoProbe	Hole Depth: 15'	1629 Webster St, Alameda, CA
Casing Type: N/A	Well Diameter: N/A	
Slot Size: N/A	Well Depth: N/A	
Gravel Pack: N/A	▼ First Water Depth:	
	▽ Static Water Depth:	
Elevation:	Northing:	Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1				Air-Knife cleared to 5 feet bgs.
					2				Light brown, well graded sand, no odor, no utilities encountered
					3				
					4				
					5				
Neat Cement Grout								SM	Brown, silty sand with gravel, 5% gravel, 20% silt, damp
					6				
					7				
	▼	wet						SM	Same as above, saturated
			12.0	DP-2@	8				
		wet		7.5-8				SM	Brown, silty sand, 30% silt, wet
					9				
			515	DP-2@	10				
				9.5-10				SM	Green/gray, silty sand, 30% silt, damp
					11				
			23.5	DP-2@	12				
	▼	wet		11.5-12				SM	Brown, silty sand with gravel, 10% gravel, 20% silt, saturated
			8.3	DP-2@	13				
				12.5-13					
					14			SM	Green/gray, silty sand, 30% silt, damp
			13.4	DP-2@	15				
				14.5-15					Total Depth = 15 feet
					16				
					17				
					18				
					19				
					20				
					21				
					22				

Project No: C102349220	Client: ConocoPhillips	Boring/Well No: **DP-3**
Logged By: A. Buehler/C. Morgan	Location: Alameda, CA	Page 1 of 1
Driller: Gragg Drilling & Testing	Date Drilled: 1/11/11	
Drilling Method: Direct Push	Hole Diameter: 2"	Site Address:
Sampling Method: GeoProbe	Hole Depth: 15'	1629 Webster St, Alameda, CA
Casing Type: N/A	Well Diameter: N/A	
Slot Size: N/A	Well Depth: N/A	
Gravel Pack: N/A	▼ First Water Depth:	
	▽ Static Water Depth:	
Elevation:	Northing:	Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement Grout					1				Air-Knife cleared to 5 feet bgs.
					2				Light brown, pea-thumb sized gravel, trace clay, no odor, no utilities encountered
					3				
					4				
					5				
					6			SM	Light brown, silty sant with gravel, 10% gravel, 20 % silt, damp, no odor
					7				
			2.0	DP-3@ 7.5-8	8				
					9			SM	Brown, silty sand, 40% silt, damp
			40.2	DP-3@ 9.5-10	10				
					11			SM	Green/gray, silty sand, 30% silt, damp
			6.0	DP-3@ 11.5-12	12				
	▼	wet						SM	Same as above, saturated
			1.8	DP-3@ 12.5-13	13				
					14			SM	Same as above, damp
			3.7	DP-3@ 14.5-15	15				
					16				Total Depth = 15 feet
					17				
					18				
					19				
					20				
					21				
					22				

anteagroup	Project No: C102349220 Logged By: A. Buehler/C. Morgan Driller: Gragg Drilling & Testing Drilling Method: Direct Push Sampling Method: GeoProbe Casing Type: N/A Slot Size: N/A Gravel Pack: N/A	Client: ConocoPhillips Location: Alameda, CA Date Drilled: 1/11/11 Hole Diameter: 2" Hole Depth: 15' Well Diameter: N/A Well Depth: N/A ▼ First Water Depth: ▽ Static Water Depth:	Boring/Well No: **DP-4** Page 1 of 1 Site Address: 1629 Webster St, Alameda, CA
	Elevation:	Northing:	Easting:

Well Completion: Backfill	Well Completion: Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						0				
						1				Air-Knife cleared to 5 feet bgs.
						2				Light brown, well graded sand, no odor
						3				
						4				
						5				
						6			SM	Brown, silty sand, 30% silt, damp
						7				
				7.3	DP-4@	8			CL	Gray, lean clay with sand, 20% sand, damp
Neat Cement Grout		▼	wet		7.5-8				SC	Brown clayey sand, 30% clay, wet
						9			SM	Brown silty sand, 30% silt
				496	DP-4@	10				
					9.5-10				SM	Green/gray, silty sand, 30% silt
				14.2	DP-4@	11				
					11.5-12	12			SM	Brown, silty sand, 30% silt, damp
				8.7	DP-4@	13				
					12.5-13	14			SM	Green/gray, silty sand, 30% silt
				4.0	DP-4@	15				
					14.5-15					Total Depth = 15 feet
						16				
						17				
						18				
						19				
						20				
						21				
						22				

anteagroup	Project No: C102349220	Client: ConocoPhillips	Boring/Well No: **DP-5**
	Logged By: A. Buehler/C. Morgan	Location: Alameda, CA	Page 1 of 1
	Driller: Gragg Drilling & Testing	Date Drilled: 1/11/11	Site Address:
	Drilling Method: Direct Push	Hole Diameter: 2"	1629 Webster St, Alameda, CA
	Sampling Method: GeoProbe	Hole Depth: 15'	
	Casing Type: N/A	Well Diameter: N/A	
	Slot Size: N/A	Well Depth: N/A	
	Gravel Pack: N/A	▼ First Water Depth:	
		▽ Static Water Depth:	
	Elevation:	Northing:	Easting:

Well Completion: Backfill	Well Completion: Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						1				Air-Knife cleared to 5 feet bgs.
						2				Brown, sand with gravel and fill, brick fill between 2-3' bgs, no utilities encountered
						3				
						4				
						5				
						6			SM	Brown silty sand, 50% sand, damp, no odor
Neat Cement Grout					DP-5@ 6.5-7	7				
		▼	wet			8			SC	Brown, clayey sand with gravel, 10% gravel, 15% clay, saturated
						9				
					DP-5@ 9.5-10	10			SM	Green/gray, silty sand, 40% silt, damp, some odor
						11				
						12				
		▼	wet						SM	Brown sitly sand, 40% silt, saturated
				22.1	DP-5@ 13-13.5	13				
						14			SM	Same as above, damp
				4.2	DP-5@ 14.5-15	15				
						16				Total Depth = 15 feet
						17				
						18				
						19				
						20				
						21				
						22				

APPENDIX C

Historical Geologic Cross Sections

A"
MW–5
MW–6
N
0
40 FT
SCALE
PACIFIC AVENUE
GP4
GP3
MW–3
PLANTER
MW–4
GP17
GP12
GP14
FORMER DISPENSER ISLAND
GP6
GP7
MW–2A
GP13
GP2
GP11
GP8
FORMER USED OIL TANK
FORMER UST
FORMER UST
GP10
FORMER DISPENSER ISLAND
CPT–01
GP16
GP15
BUILDING
A'
MW–1
GP1
WEBSTER STREET
SB–14
MW–3
SB–10
SB–9
PLANTER
S–3
S–4
S–2
S–4B
SB–13
TBW–N
SB–11
VENTS
TBW–W
UST
UST
UST
S–5
TBW–E
FORMER UNDERGROUND WASTE OIL TANK
SHELL SERVICE STATION
TBW–S
SB–12
CANOPY
DISPENSER ISLANDS
KIOSK
S–6
S–8
S–7
MW–1
MW–2
FORMER DISPENSER ISLAND
S–9
A
PHONE
RESIDENTIAL
LINCOLN AVENUE

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

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

FIGURE 2
SITE PLAN

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

PROJECT NO.	PREPARED BY	DRAWN BY
C100843	DD	JH
DATE	REVIEWED BY	FILE NAME
10/22/08	DD	76–0843

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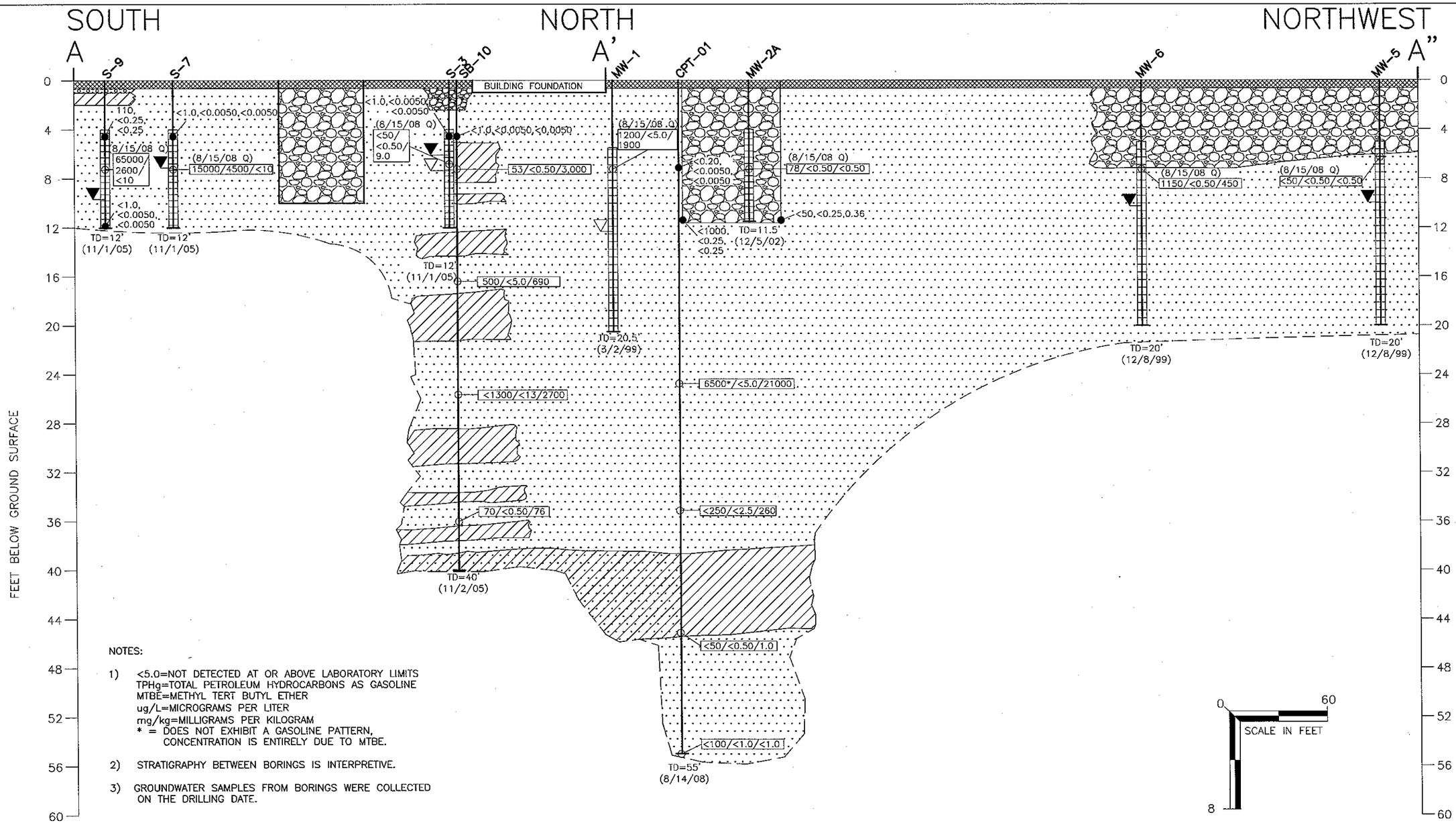


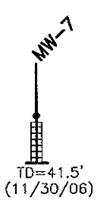
NOTES:

1) <5.0=NOT DETECTED AT OR ABOVE LABORATORY LIMITS
TPHg=TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
MTBE=METHYL TERT BUTYL ETHER
ug/L=MICROGRAMS PER LITER
mg/kg=MILLIGRAMS PER KILOGRAM
* = DOES NOT EXHIBIT A GASOLINE PATTERN, CONCENTRATION IS ENTIRELY DUE TO MTBE.

2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

3) GROUNDWATER SAMPLES FROM BORINGS WERE COLLECTED ON THE DRILLING DATE.

LEGEND



MONITORING WELL/BORING NAME

WELL CASING/EXPLORATORY BORING

SOIL SAMPLE LOCATION

WELL SCREEN

TOTAL DEPTH (DRILLING DATE)

<5.0,<0.5,<0.5

<50/<5.0/<5.0

(8/15/08 Q)

DEPTH TO STATIC GROUNDWATER

DEPTH TO FIRST ENCOUNTERED GROUNDWATER

SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (mg/kg)

GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (ug/L)

MONITORING WELL GROUNDWATER SAMPLE DATE

ASPHALT

FILL/ROAD BASE

GRAVEL

FINE GRAINED (SILT AND/OR CLAY)

SAND

APPROXIMATE STRATIGRAPHIC BOUNDARY

FIGURE 3
CROSS SECTION A-A'-A"

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

PROJECT NO.	PREPARED BY	DRAWN BY
C100843	DD	JH
DATE	REVIEWED BY	FILE NAME
10/22/08	DD	0843-CrossA

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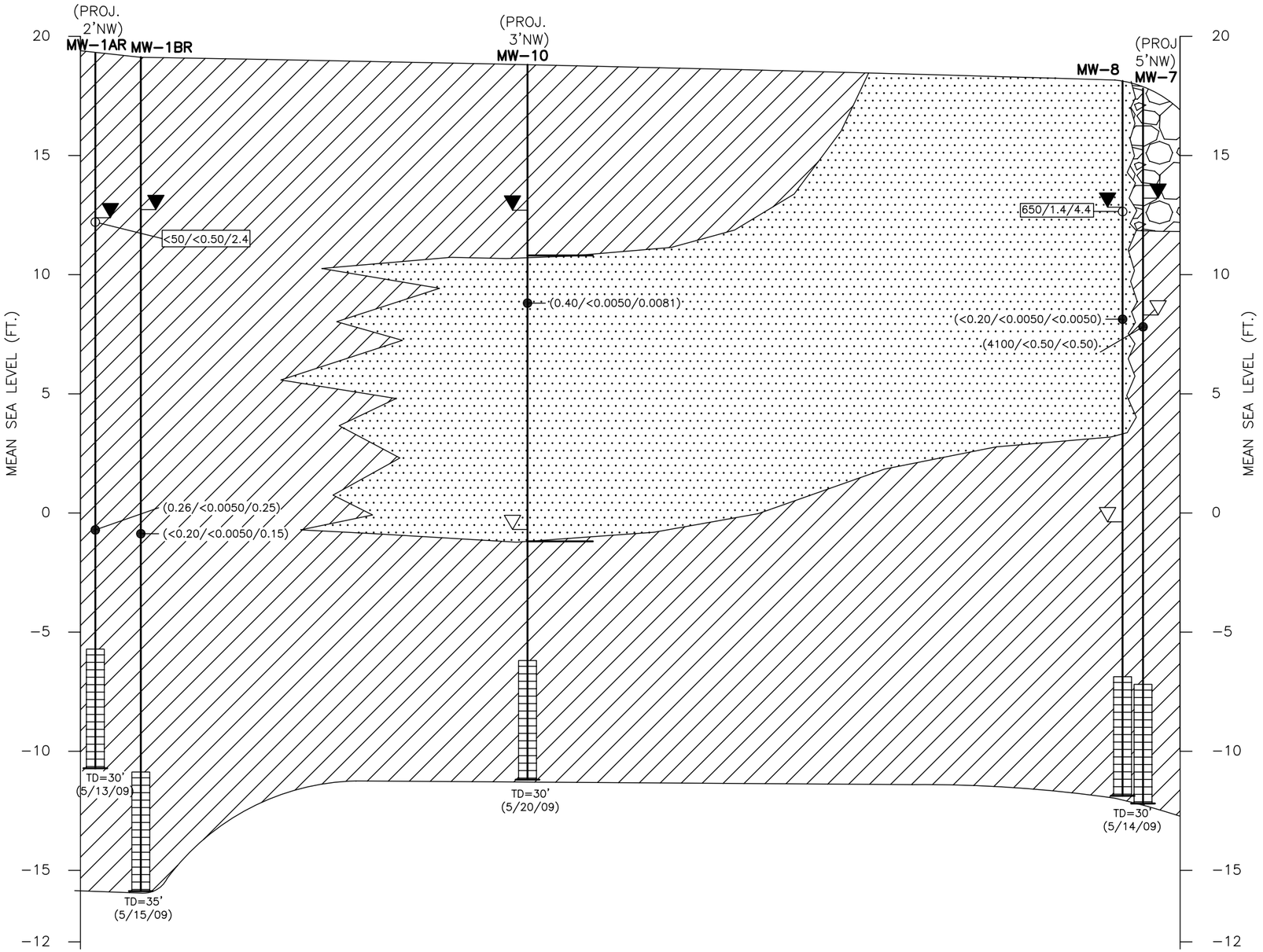
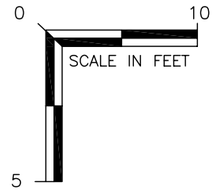
SOUTHWEST A — NORTHEAST A'

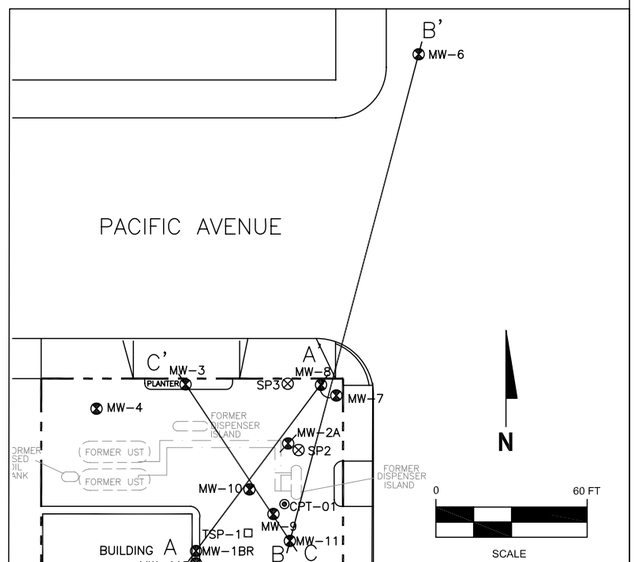


NOTES:

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

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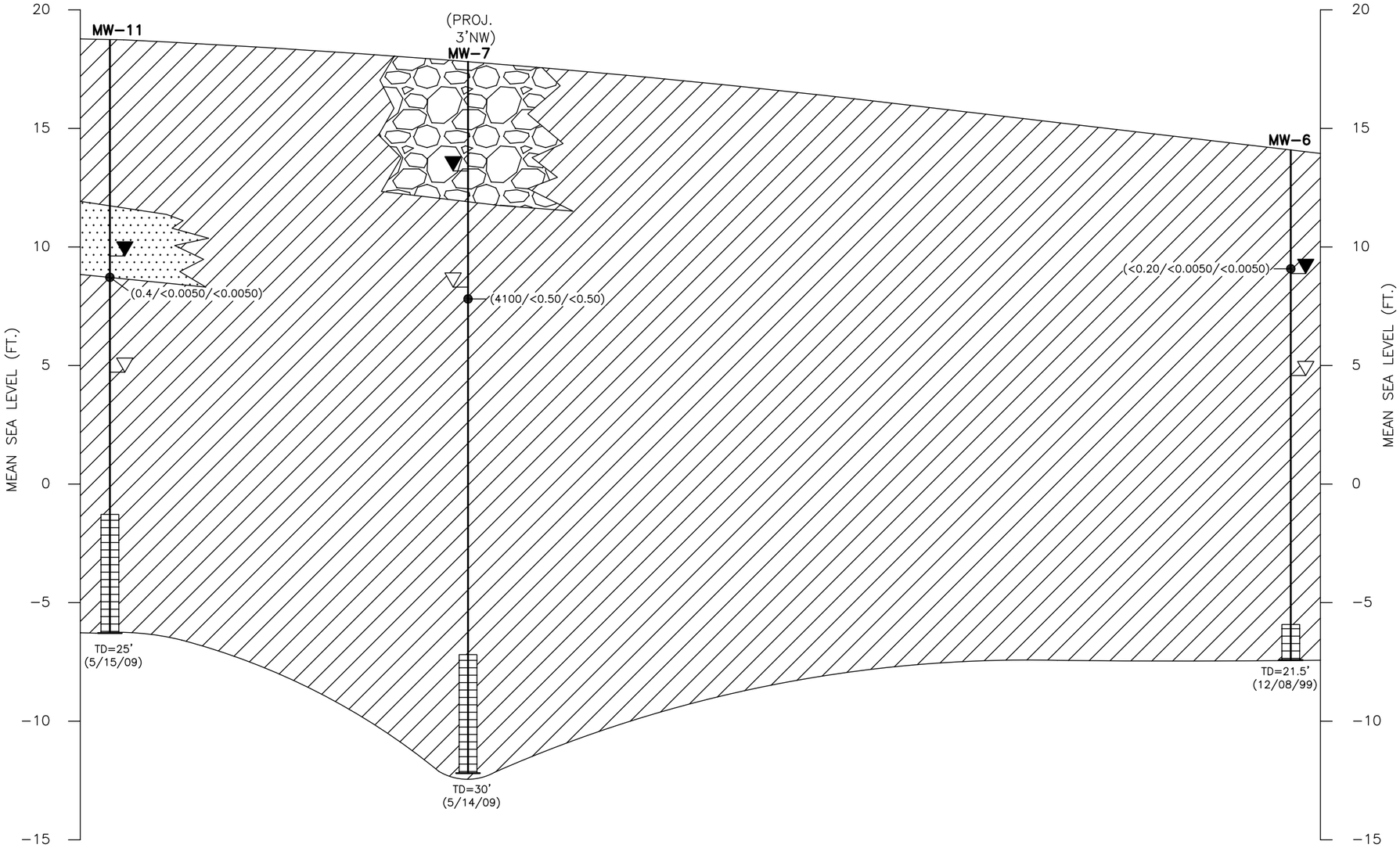
SOUTH B

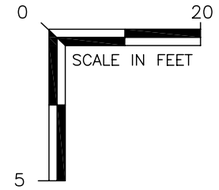
NORTH B'

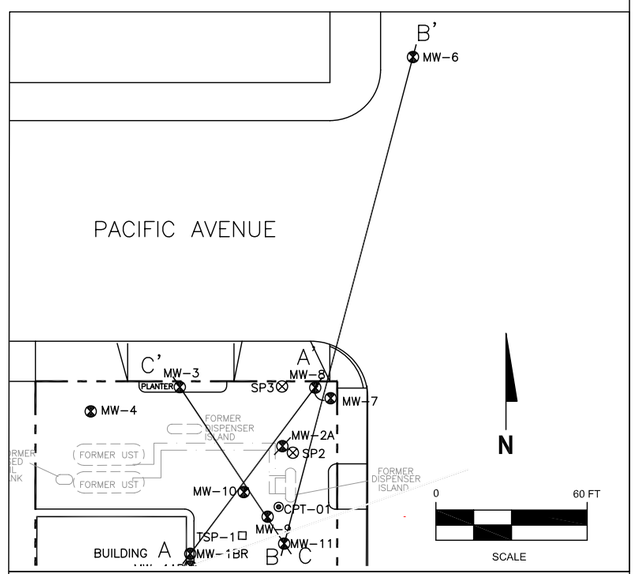


NOTES:

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.





LEGEND

MW−1	BORING/MONITORING WELL NAME
TD=30' (5/13/09)	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

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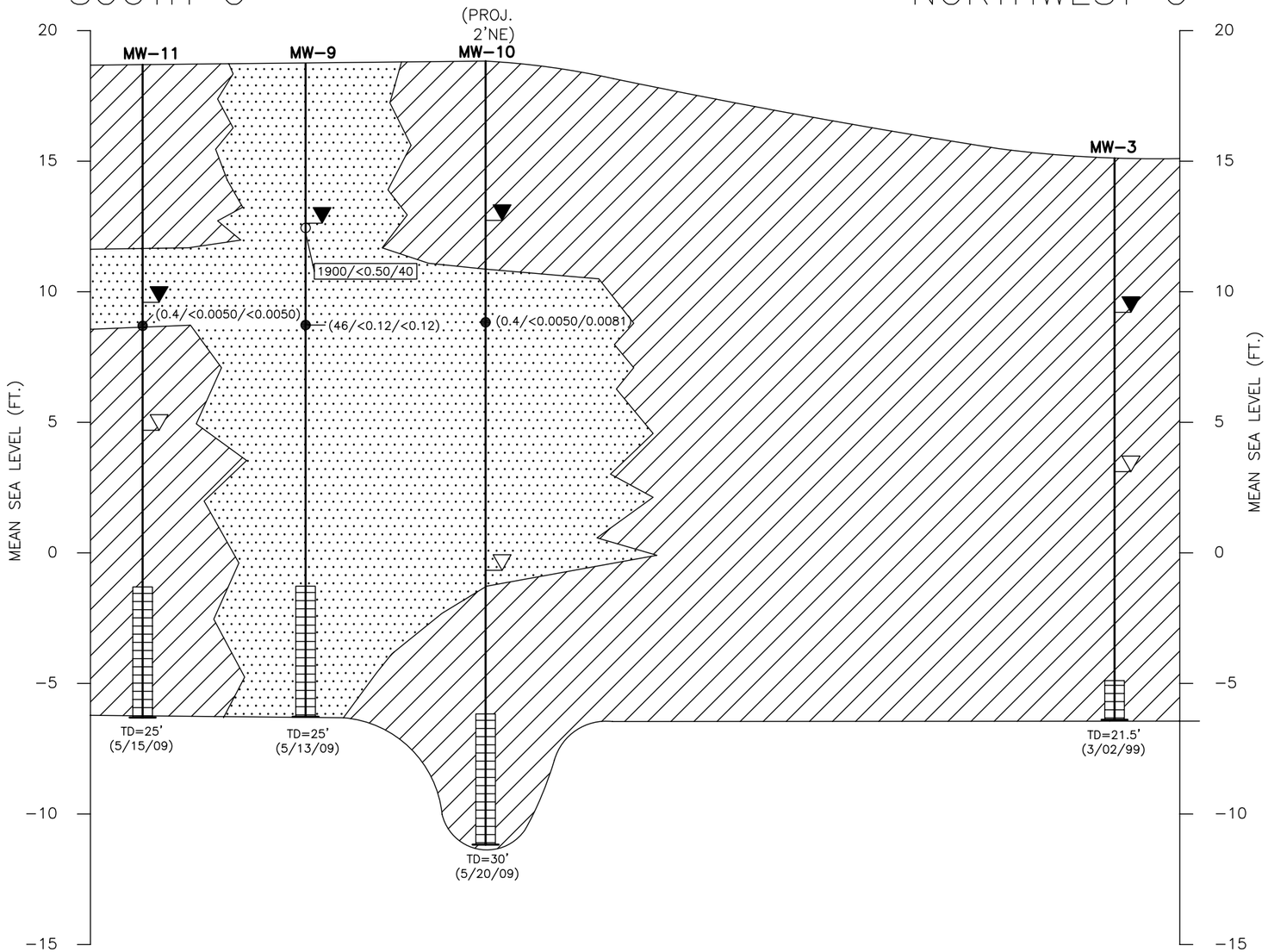
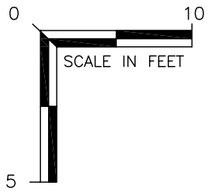
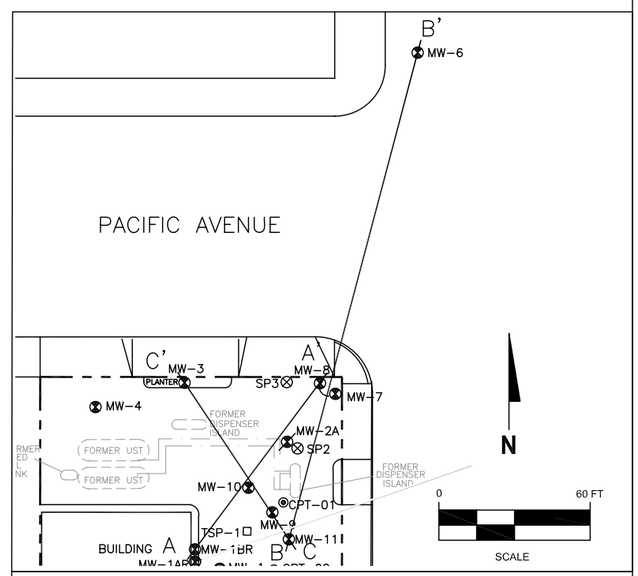


NOTES:

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 — BORING/MONITORING WELL NAME

TD=30' (5/13/09) — 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

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APPENDIX D

Groundwater Monitoring Report – October through December 2010

TRC

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: December 21, 2010

TO: ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. BILL BORGH

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

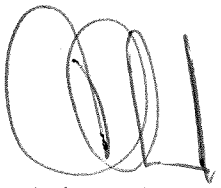
RE: GROUNDWATER MONITORING REPORT
OCTOBER THROUGH DECEMBER 2010

Dear Mr. Borgh:

Please find enclosed our Groundwater 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
20-0400/0843R30.QMS

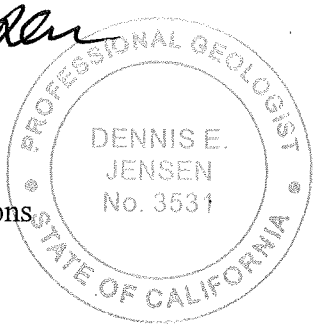
GROUNDWATER MONITORING REPORT
OCTOBER THROUGH DECEMBER 2010

FORMER 76 STATION 0843
1629 Webster Street
Alameda, California

Prepared For:

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

By:



Senior Project Geologist, Irvine Operations

Date: 12/20/10

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* Data Not Provided This Quarter
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map Figure 6: Dissolved-Phase TBA Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 11/12/10 Groundwater Sampling Field Notes – 11/12/10
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
October 2010 through December 2010
Former 76 Station 0843
1629 Webster Street
Alameda, CA

Project Coordinator: **Bill Borgh**
Telephone: **916-558-7612**
Water Sampling Contractor: ***TRC***
Compiled by: **Daniel Lee**
Date(s) of Gauging/Sampling Event: **11/11/2010**

Sample Points

Groundwater wells: **10** onsite, **2** offsite Points gauged: **12** Points sampled: **7**
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: **6.36 feet** Maximum: **8.46 feet**
Average groundwater elevation (relative to available local datum): **10.66 feet**
Average change in groundwater elevation since previous event: **-0.89 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.004 ft/ft, northeast**
Previous event: **0.005 ft/ft, north (8/3/2010)**

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** **4** Maximum: **2,600 µg/l (MW-7)**
Sample Points with **MTBE 8260B** **7** Maximum: **13,000 µg/l (MW-7)**

Notes:

MW-1=Sampled Q1 and Q3 only, MW-3=Sampled Q1 and Q3 only, MW-4=Sampled Q1 and Q3 only, MW-5=Sampled Q1 and Q3 only, MW-6=Sampled Q1 and Q3 only

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

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

ANALYTES

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

NOTES

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

REFERENCE

TRC began groundwater monitoring and sampling for 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)	Chromium (dissolved)	Iron Ferrous
Table 1b	Well/ Date	Manganese (dissolved)	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)	EDB (504)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Carbon (organic, total)	Chromium VI	Chromium (total)	Chromium (dissolved)
Table 2b	Well/ Date	Iron Ferrous	Manganese (dissolved)	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

November 11, 2010

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)**											
11/11/2010	19.13	8.13	0.00	11.00	-0.93	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-1AR			**(Screen Interval in feet: 25-30)**											
11/11/2010	19.29	8.20	0.00	11.09	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
MW-1BR			**(Screen Interval in feet: 30-35)**											
11/11/2010	19.13	8.46	0.00	10.67	-1.02	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	230	
MW-3			**(Screen Interval in feet: 5.0-20.0)**											
11/11/2010	18.05	7.40	0.00	10.65	-0.93	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-4			**(Screen Interval in feet: 5.0-20.5)**											
11/11/2010	18.14	7.42	0.00	10.72	-0.95	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-5			**(Screen Interval in feet: 5-20)**											
11/11/2010	16.45	6.36	0.00	10.09	-0.47	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-6			**(Screen Interval in feet: 5-20)**											
11/11/2010	16.97	6.54	0.00	10.43	-0.58	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-7			**(Screen Interval in feet: 25-30)**											
11/11/2010	17.81	7.23	0.00	10.58	-0.87	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	13000	
MW-8			**(Screen Interval in feet: 25-30)**											
11/11/2010	18.13	7.60	0.00	10.53	-1.04	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	4900	
MW-9			**(Screen Interval in feet: 20-25)**											
11/11/2010	18.75	8.02	0.00	10.73	-1.02	--	83	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	270	
MW-10			**(Screen Interval in feet: 25-30)**											
11/11/2010	18.84	8.16	0.00	10.68	-1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
MW-11			**(Screen Interval in feet: 25-30)**											
11/11/2010	18.72	8.00	0.00	10.72	-1.10	--	1600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6100	

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)	Chromium (dissolved) (µg/l)	Iron Ferrous (µg/l)
MW-1AR												
11/11/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.3	ND<2.0	14	ND<10	370
MW-1BR												
11/11/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.9	ND<2.0	12	ND<10	250
MW-7												
11/11/2010	1200	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4.1	ND<2.0	27	ND<10	2000
MW-8												
11/11/2010	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	3.7	ND<2.0	46	ND<10	430
MW-9												
11/11/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	2.6	24	ND<10	ND<500
MW-10												
11/11/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	10	20	11	ND<100
MW-11												
11/11/2010	ND<100	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.8	ND<2.0	17	ND<10	990

Table 1 b
ADDITIONAL CURRENT ANALYTICAL RESULTS
Former 76 Station 0843

Date Sampled	Manganese (dissolved) (µg/l)	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-1AR											
11/11/2010	210	330	20	31	7.6	206.5	545	2.67	2.46	204	216
MW-1BR											
11/11/2010	130	170	ND<0.44	28	7.0	227.8	540	1.78	1.43	212	212
MW-7											
11/11/2010	1000	1000	2.3	67	6.3	54.88	740	1.45	2.32	176	190
MW-8											
11/11/2010	810	1000	5.2	83	7.7	229.2	724	1.31	0.98	179	170
MW-9											
11/11/2010	180	1000	6.0	35	6.5	217.8	686	1.92	2.72	201	207
MW-10											
11/11/2010	9.2	160	13	28	7.6	175.6	529	3.07	4.23	190	207
MW-11											
11/11/2010	610	830	2.7	23	6.6	145.0	718	0.60	2.02	192	211

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

March 1999 Through November 2010

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)**											
3/5/1999	16.18	--	--	--	--	86.6	--	ND	2.04	ND	4.06	--	23.9	
6/3/1999	16.18	6.24	0.00	9.94	--	ND	--	ND	ND	ND	ND	ND	ND	
9/2/1999	16.18	7.19	0.00	8.99	-0.95	ND	--	ND	ND	ND	ND	ND	ND	
12/14/1999	16.18	8.07	0.00	8.11	-0.88	ND	--	ND	ND	ND	ND	ND	--	
3/14/2000	16.18	5.47	0.00	10.71	2.60	ND	--	ND	ND	ND	ND	ND	--	
5/31/2000	16.18	6.22	0.00	9.96	-0.75	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	16.18	6.82	0.00	9.36	-0.60	ND	--	ND	ND	ND	ND	ND	--	
12/1/2000	16.18	7.54	0.00	8.64	-0.72	ND	--	ND	ND	ND	ND	ND	--	
3/17/2001	16.18	5.73	0.00	10.45	1.81	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	16.18	6.43	0.00	9.75	-0.70	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	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	--	
12/10/2001	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	--	
3/11/2002	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	--	
6/7/2002	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	--	
9/3/2002	16.18	--	--	--	--	--	--	--	--	--	--	--	--	Not monitored/sampled
12/12/2002	16.18	7.80	0.00	8.38	--	--	--	--	--	--	--	--	--	No longer sampled
3/13/2003	16.18	5.94	0.00	10.24	1.86	--	--	--	--	--	--	--	--	
6/12/2003	16.18	6.10	0.00	10.08	-0.16	--	--	--	--	--	--	--	--	
9/12/2003	16.18	6.65	0.00	9.53	-0.55	--	--	--	--	--	--	--	--	
12/31/2003	16.18	5.74	0.00	10.44	0.91	--	--	--	--	--	--	--	--	Monitored only
2/12/2004	16.18	6.02	0.00	10.16	-0.28	--	--	--	--	--	--	--	--	Monitored only
6/7/2004	16.18	6.61	0.00	9.57	-0.59	--	--	--	--	--	--	--	--	Monitored only

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through November 2010
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														
9/17/2004	16.18	7.58	0.00	8.60	-0.97	--	--	--	--	--	--	--	--	Sampled Q1 only
12/11/2004	16.18	6.49	0.00	9.69	1.09	--	--	--	--	--	--	--	--	Sampled Q1 only
3/15/2005	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	
5/17/2005	16.18	5.83	0.00	10.35	-0.55	--	--	--	--	--	--	--	--	Sampled Q1 only
7/27/2005	16.18	6.52	0.00	9.66	-0.69	--	--	--	--	--	--	--	--	Sampled Q1 only
11/23/2005	16.18	7.28	0.00	8.90	-0.76	--	--	--	--	--	--	--	--	Sampled Q1 only
2/24/2006	16.18	6.60	0.00	9.58	0.68	--	910	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5100	
5/30/2006	16.18	6.48	0.00	9.70	0.12	--	--	--	--	--	--	--	--	Sampled Q1 only
8/30/2006	16.18	9.51	0.00	6.67	-3.03	--	--	--	--	--	--	--	--	Sampled Q1 only
11/22/2006	16.18	7.05	0.00	9.13	2.46	--	220	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	420	
2/23/2007	16.18	6.40	0.00	9.78	0.65	--	1300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	1700	
5/18/2007	16.18	6.65	0.00	9.53	-0.25	--	2300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	3300	
8/10/2007	16.18	7.26	0.00	8.92	-0.61	--	4100	ND<25	ND<25	ND<25	ND<25	--	4300	
11/9/2007	16.18	7.40	0.00	8.78	-0.14	--	5700	ND<25	ND<25	ND<25	ND<25	--	5400	
2/8/2008	16.18	6.09	0.00	10.09	1.31	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	4100	
5/16/2008	16.18	6.87	0.00	9.31	-0.78	--	1800	ND<12	ND<12	ND<12	42	--	3500	
8/15/2008	16.18	7.78	0.00	8.40	-0.91	--	1200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1900	
11/26/2008	16.18	8.65	0.00	7.53	-0.87	--	720	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2400	
2/24/2009	19.13	6.73	0.00	12.40	4.87	--	630	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2300	
5/28/2009	19.13	6.46	0.00	12.67	0.27	--	1000	ND<10	ND<10	ND<10	ND<20	--	4100	
9/14/2009	19.13	7.60	0.00	11.53	-1.14	--	1700	ND<5.0	ND<5.0	ND<5.0	ND<10	--	2100	
11/13/2009	19.13	7.83	0.00	11.30	-0.23	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	19.13	6.72	0.00	12.41	1.11	--	1600	ND<12	ND<12	ND<12	ND<25	--	3400	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through November 2010
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														
6/7/2010	19.13	6.58	0.00	12.55	0.14	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	19.13	7.20	0.00	11.93	-0.62	--	280	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	1400	
11/11/2010	19.13	8.13	0.00	11.00	-0.93	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-1AR			**(Screen Interval in feet: 25-30)**											
5/28/2009	19.29	7.25	0.00	12.04	--	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	930	
9/14/2009	19.29	7.83	0.00	11.46	-0.58	--	480	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	890	
11/13/2009	19.29	8.07	0.00	11.22	-0.24	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	580	
2/5/2010	19.29	7.15	0.00	12.14	0.92	--	140	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	350	
6/7/2010	19.29	6.90	0.00	12.39	0.25	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	200	
8/3/2010	19.29	7.48	0.00	11.81	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	81	
11/11/2010	19.29	8.20	0.00	11.09	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
MW-1BR			**(Screen Interval in feet: 30-35)**											
5/28/2009	19.13	6.70	0.00	12.43	--	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	810	
9/14/2009	19.13	7.80	0.00	11.33	-1.10	--	450	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	680	
11/13/2009	19.13	7.88	0.00	11.25	-0.08	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	490	
2/5/2010	19.13	7.84	0.00	11.29	0.04	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	280	
6/7/2010	19.13	7.28	0.00	11.85	0.56	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	
8/3/2010	19.13	7.44	0.00	11.69	-0.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	280	
11/11/2010	19.13	8.46	0.00	10.67	-1.02	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	230	
MW-2			**(Screen Interval in feet: 4.5-20.5)**											
3/5/1999	15.57	--	0.00	--	--	34400	--	2070	7710	2340	8240	--	8460	
6/3/1999	15.57	5.96	0.00	9.61	--	51200	--	1820	7570	2510	7320	6460	8800	

Table 2
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March 1999 Through November 2010
Former 76 Station 0843

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MW-2 continued														
9/2/1999	15.57	6.85	0.00	8.72	-0.89	17000	--	1000	3100	1400	3700	4000	3720	
12/14/1999	15.57	7.65	0.00	7.92	-0.80	83000	--	3000	22000	4500	17000	9100	11000	
3/14/2000	15.57	5.26	0.00	10.31	2.39	31000	--	1600	4600	2300	7300	5700	8700	
5/31/2000	15.57	5.60	0.00	9.97	-0.34	9970	--	598	1030	487	2060	2500	1670	
8/29/2000	15.57	6.35	0.00	9.22	-0.75	7900	--	390	1500	280	1900	1800	1300	
12/1/2000	15.57	7.06	0.00	8.51	-0.71	87500	--	1860	17400	5590	19400	6220	3790	
3/17/2001	15.57	5.98	0.00	9.59	1.08	4310	--	371	59.0	280	682	321	433	
5/23/2001	15.57	6.97	0.00	8.60	-0.99	45400	--	374	4490	2790	10900	ND	406	
9/24/2001	15.57	7.56	0.00	8.01	-0.59	76000	--	430	13000	4700	18000	ND<2000	480	
12/10/2001	15.57	6.52	0.00	9.05	1.04	82000	--	320	9100	4400	16000	ND<2500	270	
3/11/2002	15.57	5.51	0.00	10.06	1.01	14000	--	75	1400	1100	3600	ND<250	150	
6/7/2002	15.57	5.73	0.00	9.84	-0.22	14000	--	120	1200	1400	4700	540	200	
9/3/2002	15.57	6.81	0.00	8.76	-1.08	10000	--	150	1200	610	2800	510	460	
12/12/2002	15.57	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed; Replaced with MW-2A
MW-2A			**(Screen Interval in feet: 5-11.5)**											
12/12/2002	15.56	7.45	0.00	8.11	--	3400	--	80	260	210	1000	380	400	
3/13/2003	--	5.85	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	1.8	2.4	2.4	
6/12/2003	--	6.08	0.00	--	--	ND<50	--	0.59	0.69	ND<0.50	1.2	6.0	4.7	
9/12/2003	15.56	6.54	0.00	9.02	--	--	120	1.8	4.2	6.1	20	--	6.6	
12/31/2003	15.56	5.63	0.00	9.93	0.91	88	--	0.79	1.8	3.6	14	ND<5.0	2.9	
2/12/2004	15.56	5.68	0.00	9.88	-0.05	160	--	2.6	4.8	13	48	7.2	7.9	
6/7/2004	15.56	6.21	0.00	9.35	-0.53	94	--	0.80	1.2	2.1	9.1	4.5	3.7	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through November 2010
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														
9/17/2004	15.56	7.16	0.00	8.40	-0.95	--	230	3.5	6.1	13	41	--	83	
12/11/2004	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	
3/15/2005	15.56	5.52	0.00	10.04	0.32	--	92	0.84	1.7	2.4	9.8	--	ND<10	
5/17/2005	15.56	5.55	0.00	10.01	-0.03	--	54	2.1	1.7	1.9	7.0	--	2.9	
7/27/2005	15.56	6.16	0.00	9.40	-0.61	--	ND<50	0.66	1.1	1.3	4.2	--	3.7	
11/23/2005	15.56	6.88	0.00	8.68	-0.72	--	120	1.3	2.8	7.8	30	--	10	
2/24/2006	15.56	5.79	0.00	9.77	1.09	--	84	0.51	1.2	4.2	16	--	7.2	
5/30/2006	15.56	5.62	0.00	9.94	0.17	--	69	0.90	2.2	3.7	14	--	4.1	
8/30/2006	15.56	6.38	0.00	9.18	-0.76	--	77	ND<0.50	0.50	1.0	3.3	--	2.5	
11/22/2006	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	
2/23/2007	15.56	6.05	0.00	9.51	0.55	--	ND<50	ND<0.50	0.66	ND<0.50	1.1	--	0.72	
5/18/2007	15.56	6.29	0.00	9.27	-0.24	--	ND<50	ND<0.50	ND<0.50	0.68	1.6	--	0.81	
8/10/2007	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	
11/9/2007	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	
2/8/2008	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	
5/16/2008	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	
8/15/2008	15.56	7.35	0.00	8.21	-0.85	--	78	ND<0.50	0.79	2.9	6.5	--	ND<0.50	
11/26/2008	15.56	8.12	0.00	7.44	-0.77	--	120	0.56	0.66	4.6	6.0	--	1.8	
2/24/2009	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	
MW-3			**(Screen Interval in feet: 5.0-20.0)**											
3/5/1999	15.11	--	0.00	--	--	135	--	ND	ND	ND	4.84	--	2.46	
6/3/1999	15.11	5.57	0.00	9.54	--	ND	--	ND	ND	ND	ND	5.23	12.7	
9/2/1999	15.11	6.50	0.00	8.61	-0.93	ND	--	ND	ND	ND	ND	13	11	

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March 1999 Through November 2010
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														
12/14/1999	15.11	7.28	0.00	7.83	-0.78	ND	--	ND	ND	ND	ND	ND	--	
3/14/2000	15.11	4.87	0.00	10.24	2.41	ND	--	ND	ND	ND	ND	7.2	6.3	
5/31/2000	15.11	5.58	0.00	9.53	-0.71	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	15.11	6.06	0.00	9.05	-0.48	ND	--	ND	ND	ND	ND	ND	ND	
12/1/2000	15.11	6.76	0.00	8.35	-0.70	ND	--	ND	ND	ND	ND	ND	--	
3/17/2001	15.11	5.09	0.00	10.02	1.67	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	15.11	5.72	0.00	9.39	-0.63	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	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	--	
12/10/2001	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	--	
3/11/2002	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	--	
6/7/2002	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	--	
12/12/2002	15.11	7.15	0.00	7.96	-1.70	--	--	--	--	--	--	--	--	No longer sampled
3/13/2003	15.11	5.37	0.00	9.74	1.78	--	--	--	--	--	--	--	--	
6/12/2003	15.11	5.51	0.00	9.60	-0.14	--	--	--	--	--	--	--	--	
9/12/2003	15.11	6.03	0.00	9.08	-0.52	--	--	--	--	--	--	--	--	
12/31/2003	15.11	5.62	0.00	9.49	0.41	--	--	--	--	--	--	--	--	Monitored only
2/12/2004	15.11	5.51	0.00	9.60	0.11	--	--	--	--	--	--	--	--	Monitored only
6/7/2004	15.11	5.92	0.00	9.19	-0.41	--	--	--	--	--	--	--	--	Monitored only
9/17/2004	15.11	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/11/2004	15.11	5.94	0.00	9.17	--	--	--	--	--	--	--	--	--	Sampled annually
3/11/2005	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	
5/17/2005	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	
7/27/2005	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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through November 2010
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														
11/23/2005	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	
2/24/2006	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	
5/30/2006	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	
8/30/2006	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	
11/22/2006	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	
2/23/2007	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	
5/18/2007	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	
8/10/2007	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	
11/9/2007	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	
2/8/2008	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	
5/16/2008	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	
8/15/2008	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	
11/26/2008	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	
2/24/2009	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	
5/28/2009	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	
9/14/2009	18.05	6.88	0.00	11.17	-1.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/13/2009	18.05	7.02	0.00	11.03	-0.14	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	18.05	6.02	0.00	12.03	1.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
6/7/2010	18.05	5.92	0.00	12.13	0.10	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	18.05	6.47	0.00	11.58	-0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.78	
11/11/2010	18.05	7.40	0.00	10.65	-0.93	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-4			**(Screen Interval in feet: 5.0-20.5)**											
3/5/1999	15.17	--	0.00	--	--	ND	--	ND	ND	ND	2.44	--	25.2	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through November 2010
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														
6/3/1999	15.17	5.45	0.00	9.72	--	ND	--	ND	ND	ND	ND	ND	3.96	
9/2/1999	15.17	6.48	0.00	8.69	-1.03	ND	--	ND	ND	ND	ND	23	27	
12/14/1999	15.17	7.27	0.00	7.90	-0.79	ND	--	ND	ND	ND	ND	200	270	
3/14/2000	15.17	4.67	0.00	10.50	2.60	ND	--	ND	ND	ND	ND	46	49	
5/31/2000	15.17	5.48	0.00	9.69	-0.81	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	15.17	6.10	0.00	9.07	-0.62	ND	--	ND	ND	ND	ND	6.1	3.2	
12/1/2000	15.17	6.79	0.00	8.38	-0.69	ND	--	ND	ND	ND	ND	152	101	
3/17/2001	15.17	5.01	0.00	10.16	1.78	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	15.17	5.78	0.00	9.39	-0.77	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	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	--	
12/10/2001	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	
3/11/2002	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	--	
6/7/2002	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	--	
9/3/2002	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	--	
12/12/2002	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	
3/13/2003	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	--	
6/12/2003	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	--	
9/12/2003	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	
12/31/2003	15.17	5.63	0.00	9.54	0.44	750	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	790	--	
2/12/2004	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	--	
6/7/2004	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	--	
9/17/2004	15.17	6.86	0.00	8.31	-1.04	--	56	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
12/11/2004	15.17	6.01	0.00	9.16	0.85	--	350	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	380	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through November 2010
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														
3/11/2005	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	
5/17/2005	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	
7/27/2005	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	
11/23/2005	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	
2/24/2006	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	
5/30/2006	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	
8/30/2006	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	
11/22/2006	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	
2/23/2007	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	
5/18/2007	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	
8/10/2007	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	
11/9/2007	15.17	6.77	0.00	8.40	0.72	--	50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	39	
2/8/2008	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	
5/16/2008	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	
8/15/2008	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	
11/26/2008	15.17	7.71	0.00	7.46	-0.80	--	55	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
2/24/2009	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	
5/28/2009	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	
9/14/2009	18.14	6.76	0.00	11.38	-1.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/13/2009	18.14	6.97	0.00	11.17	-0.21	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	18.14	5.55	0.00	12.59	1.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.91	
6/7/2010	18.14	5.78	0.00	12.36	-0.23	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	18.14	6.47	0.00	11.67	-0.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2
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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														
11/11/2010	18.14	7.42	0.00	10.72	-0.95	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-5			**(Screen Interval in feet: 5-20)**											
12/14/1999	13.34	6.45	0.00	6.89	--	ND	--	ND	ND	ND	ND	3.5	3.8	
3/14/2000	13.34	4.46	0.00	8.88	1.99	ND	--	ND	ND	ND	ND	ND	--	
5/31/2000	13.34	5.18	0.00	8.16	-0.72	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	13.34	5.46	0.00	7.88	-0.28	ND	--	ND	ND	ND	ND	ND	--	
12/1/2000	13.34	5.95	0.00	7.39	-0.49	ND	--	ND	ND	ND	ND	ND	--	
3/17/2001	13.34	5.36	0.00	7.98	0.59	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	13.34	5.09	0.00	8.25	0.27	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	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	--	
12/10/2001	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	--	
3/11/2002	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	--	
6/7/2002	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/3/2002	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
12/12/2002	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	--	
3/13/2003	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	--	
6/12/2003	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	--	
9/12/2003	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	
12/31/2003	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	--	
2/12/2004	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	--	
6/7/2004	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	--	
9/17/2004	13.34	6.10	0.00	7.24	-0.75	--	--	--	--	--	--	--	--	Sampled annually
12/11/2004	13.34	5.53	0.00	7.81	0.57	--	--	--	--	--	--	--	--	Sampled annually

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MW-5 continued														
3/11/2005	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	
5/17/2005	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	
7/27/2005	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	
11/23/2005	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	
2/24/2006	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	
5/30/2006	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	
8/30/2006	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	
11/22/2006	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	
2/23/2007	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	
5/18/2007	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	
8/10/2007	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	
11/9/2007	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	
2/8/2008	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	
5/16/2008	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	
8/15/2008	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	
11/26/2008	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	
2/24/2009	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	
5/28/2009	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	
9/14/2009	16.45	6.29	0.00	10.16	-1.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/13/2009	16.45	6.23	0.00	10.22	0.06	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	16.45	5.38	0.00	11.07	0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/7/2010	16.45	5.39	0.00	11.06	-0.01	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	16.45	5.89	0.00	10.56	-0.50	--	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 November 2010
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														
11/11/2010	16.45	6.36	0.00	10.09	-0.47	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-6			**(Screen Interval in feet: 5-20)**											
12/14/1999	14.08	6.64	0.00	7.44	--	ND	--	ND	ND	ND	ND	11000	18000	
3/14/2000	14.08	4.72	0.00	9.36	1.92	ND	--	ND	ND	ND	ND	19000	21000	
5/31/2000	14.08	5.28	0.00	8.80	-0.56	ND	--	ND	ND	ND	ND	13200	--	
8/29/2000	14.08	5.39	0.00	8.69	-0.11	ND	--	ND	ND	ND	ND	270	400	
12/1/2000	14.08	6.11	0.00	7.97	-0.72	ND	--	ND	ND	ND	ND	6330	3640	
3/17/2001	14.08	6.02	0.00	8.06	0.09	18700	--	2950	989	1040	3000	10200	11500	
5/23/2001	14.08	5.82	0.00	8.26	0.20	ND	--	ND	ND	ND	ND	4660	--	
9/24/2001	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	
12/10/2001	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	
3/11/2002	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	
6/7/2002	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/3/2002	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
12/12/2002	14.08	6.51	0.00	7.57	--	590	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1500	6200	
3/13/2003	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 3/13/2003	14.08	5.20	0.00	8.88	1.31	--	--	--	--	--	--	--	5100	
6/12/2003	14.08	5.38	0.00	8.70	-0.18	1600	--	ND<10	ND<10	ND<10	ND<10	5200	3700	
9/12/2003	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	
12/31/2003	14.08	5.38	0.00	8.70	0.91	3300	--	ND<25	ND<25	ND<25	ND<25	3800	--	
2/12/2004	14.08	5.06	0.00	9.02	0.32	1100	--	ND<10	ND<10	ND<10	ND<10	1900	2800	
6/7/2004	14.08	5.45	0.00	8.63	-0.39	2500	--	ND<3	ND<3	ND<3	ND<6	3200	2900	
9/17/2004	14.08	6.20	0.00	7.88	-0.75	--	1300	ND<10	ND<10	ND<10	ND<20	--	2000	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through November 2010
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														
12/11/2004	14.08	5.60	0.00	8.48	0.60	--	1800	ND<10	ND<10	ND<10	ND<20	--	2700	
3/11/2005	14.08	4.71	0.00	9.37	0.89	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	2500	
5/17/2005	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	
7/27/2005	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	
11/23/2005	14.08	6.01	0.00	8.07	-0.53	--	590	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1700	
2/24/2006	14.08	5.12	0.00	8.96	0.89	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	990	
5/30/2006	14.08	5.04	0.00	9.04	0.08	--	ND<1200	ND<12	ND<12	ND<12	ND<25	--	560	
8/30/2006	14.08	7.01	0.00	7.07	-1.97	--	930	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	820	
11/22/2006	14.08	6.16	0.00	7.92	0.85	--	690	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	620	
2/23/2007	14.08	5.44	0.00	8.64	0.72	--	190	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	410	
5/18/2007	14.08	5.63	0.00	8.45	-0.19	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	620	
8/10/2007	14.08	6.71	0.00	7.37	-1.08	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	660	
11/9/2007	14.08	6.17	0.00	7.91	0.54	--	580	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	820	
2/8/2008	14.08	5.20	0.00	8.88	0.97	--	360	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	570	
5/16/2008	14.08	5.70	0.00	8.38	-0.50	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	480	
8/15/2008	14.08	6.46	0.00	7.62	-0.76	--	160	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	450	
11/26/2008	14.08	7.01	0.00	7.07	-0.55	--	300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	400	
2/24/2009	16.97	5.20	0.00	11.77	4.70	--	250	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	450	
5/28/2009	16.97	5.26	0.00	11.71	-0.06	--	74	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
9/14/2009	16.97	6.30	0.00	10.67	-1.04	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	
11/13/2009	16.97	6.40	0.00	10.57	-0.10	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	16.97	5.89	0.00	11.08	0.51	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	
6/7/2010	16.97	5.52	0.00	11.45	0.37	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through November 2010
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														
8/3/2010	16.97	5.96	0.00	11.01	-0.44	--	71	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	180	
11/11/2010	16.97	6.54	0.00	10.43	-0.58	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
MW-7			**(Screen Interval in feet: 25-30)**											
5/28/2009	17.81	8.29	0.00	9.52	--	--	1100	ND<0.50	ND<0.50	1.4	7.1	--	15000	
9/14/2009	17.81	6.77	0.00	11.04	1.52	--	7900	ND<25	ND<25	ND<25	ND<50	--	15000	
11/13/2009	17.81	6.78	0.00	11.03	-0.01	--	5700	ND<10	ND<10	ND<10	ND<20	--	13000	
2/5/2010	17.81	8.50	0.00	9.31	-1.72	--	4300	ND<12	ND<12	ND<12	ND<25	--	12000	
6/7/2010	17.81	5.74	0.00	12.07	2.76	--	7100	ND<12	ND<12	ND<12	ND<25	--	16000	
8/3/2010	17.81	6.36	0.00	11.45	-0.62	--	1600	ND<10	ND<10	ND<10	ND<20	--	12000	
11/11/2010	17.81	7.23	0.00	10.58	-0.87	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	13000	
MW-8			**(Screen Interval in feet: 25-30)**											
5/28/2009	18.13	7.42	0.00	10.71	--	--	850	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12000	
9/14/2009	18.13	6.97	0.00	11.16	0.45	--	3500	ND<25	ND<25	ND<25	ND<50	--	5600	
11/13/2009	18.13	7.11	0.00	11.02	-0.14	--	3200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6700	
2/5/2010	18.13	7.38	0.00	10.75	-0.27	--	2400	ND<10	ND<10	ND<10	ND<20	--	6300	
6/7/2010	18.13	6.07	0.00	12.06	1.31	--	4200	ND<10	ND<10	ND<10	ND<20	--	9000	
8/3/2010	18.13	6.56	0.00	11.57	-0.49	--	1200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	5600	
11/11/2010	18.13	7.60	0.00	10.53	-1.04	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	4900	
MW-9			**(Screen Interval in feet: 20-25)**											
5/28/2009	18.75	6.24	0.00	12.51	--	--	1200	ND<0.50	ND<0.50	0.75	15	--	13000	
9/14/2009	18.75	7.36	0.00	11.39	-1.12	--	280	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	390	
11/13/2009	18.75	7.56	0.00	11.19	-0.20	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	280	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through November 2010
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-9 continued														
2/5/2010	18.75	6.70	0.00	12.05	0.86	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	190	
6/7/2010	18.75	6.59	0.00	12.16	0.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	66	
8/3/2010	18.75	7.00	0.00	11.75	-0.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	99	
11/11/2010	18.75	8.02	0.00	10.73	-1.02	--	83	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	270	
MW-10			**(Screen Interval in feet: 25-30)**											
5/28/2009	18.84	6.69	0.00	12.15	--	--	700	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3500	
9/14/2009	18.84	7.50	0.00	11.34	-0.81	--	3300	ND<6.2	ND<6.2	ND<6.2	ND<12	--	4900	
11/13/2009	18.84	7.70	0.00	11.14	-0.20	--	1500	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	3300	
2/5/2010	18.84	6.66	0.00	12.18	1.04	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	260	
6/7/2010	18.84	6.56	0.00	12.28	0.10	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.9	
8/3/2010	18.84	7.14	0.00	11.70	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.3	
11/11/2010	18.84	8.16	0.00	10.68	-1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
MW-11			**(Screen Interval in feet: 25-30)**											
5/28/2009	18.72	6.18	0.00	12.54	--	--	920	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	15000	
9/14/2009	18.72	7.45	0.00	11.27	-1.27	--	11000	ND<25	ND<25	ND<25	ND<50	--	18000	
11/13/2009	18.72	7.51	0.00	11.21	-0.06	--	6200	ND<10	ND<10	ND<10	ND<20	--	13000	
2/5/2010	18.72	7.50	0.00	11.22	0.01	--	4500	ND<12	ND<12	ND<12	ND<25	--	13000	
6/7/2010	18.72	6.36	0.00	12.36	1.14	--	4300	ND<10	ND<10	ND<10	ND<20	--	9500	
8/3/2010	18.72	6.90	0.00	11.82	-0.54	--	1400	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6000	
11/11/2010	18.72	8.00	0.00	10.72	-1.10	--	1600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6100	

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)	EDB (504) (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)	Chromium (dissolved) (µg/l)
MW-1												
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--
3/15/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2006	62	ND<250	--	--	--	ND<0.50	ND<0.50	5.5	--	--	--	--
11/22/2006	74	ND<250	--	--	--	ND<0.50	ND<0.50	0.51	--	--	--	--
2/23/2007	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
5/18/2007	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
8/10/2007	ND<500	ND<12000	--	--	--	ND<25	ND<25	ND<25	--	--	--	--
11/9/2007	ND<500	ND<12000	--	--	--	ND<25	ND<25	ND<25	--	--	--	--
2/8/2008	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
5/16/2008	ND<250	ND<6200	--	--	--	ND<12	ND<12	ND<12	--	--	--	--
8/15/2008	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	2.5	1.3	--	--	--
5/28/2009	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	1.8	2.0	87	--
9/14/2009	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	1.4	2.2	220	--
2/5/2010	ND<250	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	--	--
8/3/2010	140	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.5	ND<2.0	70	ND<10
MW-1AR												
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	1.6	--	--	--	--
9/14/2009	110	ND<500	--	--	--	ND<1.0	ND<1.0	ND<1.0	4.5	ND<2.0	170	--
11/13/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.1	ND<2.0	25	ND<10
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.2	ND<2.0	ND<10	ND<10
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.3	ND<2.0	14	ND<10

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)	EDB (504) (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)	Chromium (dissolved) (µg/l)
MW-1BR												
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	2.0	--	--	--	--
9/14/2009	33	ND<500	--	--	--	ND<1.0	ND<1.0	1.9	3.7	ND<2.0	250	--
11/13/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	1.2	--	--	--	--
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	ND<2.0	26	ND<10
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	ND<2.0	25	ND<10
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.9	ND<2.0	12	ND<10
MW-2												
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--
12/14/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--
3/14/2000	1300	ND	ND	--	ND	ND	ND	ND	--	--	--	--
5/31/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--
8/29/2000	250	ND	ND	--	ND	ND	ND	ND	--	--	--	--
12/1/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--
3/17/2001	ND	ND	ND	--	ND	14.8	ND	ND	--	--	--	--
5/23/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--
9/24/2001	ND<5000	ND<50000000	ND<100	--	ND<100	ND<100	ND<100	ND<100	--	--	--	--
12/10/2001	ND<500	ND<12000000	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	--	--	--
3/11/2002	ND<1000	ND<5000000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--	--
6/7/2002	ND<1000	ND<2000000	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	--	--	--
9/3/2002	ND<1000	ND<5000000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--	--
MW-2A												
12/12/2002	ND<100	ND<500000	ND<2.0	--	2.3	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
3/13/2003	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--

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)	EDB (504) (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)	Chromium (dissolved) (µg/l)
MW-2A continued												
6/12/2003	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
9/12/2003	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
12/31/2003	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
2/12/2004	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
6/7/2004	ND<12	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1	--	--	--	--
9/17/2004	6.7	ND<50	--	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
12/11/2004	ND<5.0	ND<50	--	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
3/15/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	17	--	--	--

MW-3

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)	EDB (504) (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)	Chromium (dissolved) (µg/l)
MW-3 continued												
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--
3/11/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	3.2	--	--	--
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
9/14/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
MW-4												
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--
12/10/2001	ND<290	ND<7100000	ND<14	--	ND<14	ND<14	ND<14	ND<14	--	--	--	--

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)	EDB (504) (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)	Chromium (dissolved) (µg/l)
MW-4 continued												
12/12/2002	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
9/12/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--
9/17/2004	ND<5.0	ND<50	--	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--
12/11/2004	ND<25	ND<250	--	--	--	ND<5.0	ND<2.5	ND<2.5	--	--	--	--
3/11/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/8/2008	ND<10	290	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	1.7	--	--	--
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
9/14/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	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)	EDB (504) (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)	Chromium (dissolved) (µg/l)
MW-5												
9/12/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--
3/11/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2006	59	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	4.5	--	--	--
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
9/14/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
MW-6												
3/17/2001	ND	ND	ND	--	219	ND	ND	ND	--	--	--	--
9/24/2001	ND<100	ND<1000000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--

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)	EDB (504) (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)	Chromium (dissolved) (µg/l)
MW-6 continued												
12/10/2001	ND<500	ND<12000000	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	--	--	--
3/11/2002	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
12/12/2002	ND<10000	ND<50000000	ND<200	--	ND<200	ND<200	ND<200	ND<200	--	--	--	--
3/13/2003	ND<5000	ND<25000000	ND<100	--	ND<100	ND<100	ND<100	ND<100	--	--	--	--
6/12/2003	ND<2000	ND<10000000	ND<40	--	ND<40	ND<40	ND<40	ND<40	--	--	--	--
9/12/2003	--	ND<2500	--	--	--	--	--	--	--	--	--	--
2/12/2004	ND<2000	ND<10000	ND<40	--	ND<40	ND<40	ND<40	ND<40	--	--	--	--
6/7/2004	ND<200	ND<8000	ND<5	--	ND<5	ND<10	ND<10	ND<10	--	--	--	--
9/17/2004	ND<100	ND<1000	--	--	--	ND<20	ND<10	ND<10	--	--	--	--
12/11/2004	ND<100	ND<1000	--	--	--	ND<20	ND<10	ND<10	--	--	--	--
3/11/2005	ND<100	ND<1000	--	--	--	ND<10	ND<10	ND<10	--	--	--	--
5/17/2005	ND<100	ND<1000	--	--	--	ND<10	ND<10	ND<10	--	--	--	--
7/27/2005	ND<100	ND<1000	--	--	--	ND<10	ND<10	ND<10	--	--	--	--
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	1.0	--	--	--	--
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	0.68	--	--	--	--
5/30/2006	ND<250	ND<6200	--	--	--	ND<12	ND<12	ND<12	--	--	--	--
8/30/2006	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
11/22/2006	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	0.52	--	--	--	--
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/15/2008	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)	EDB (504) (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)	Chromium (dissolved) (µg/l)
MW-6 continued												
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	2.7	--	--	--
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
9/14/2009	23	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/5/2010	41	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
8/3/2010	ND<10	ND<250	ND<0.50	ND<0.010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
MW-7												
5/28/2009	150	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--
9/14/2009	680	ND<12000	--	--	--	ND<25	ND<25	ND<25	9.8	ND<2.0	76	--
11/13/2009	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--
2/5/2010	1600	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	--	--
6/7/2010	ND<250	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	3.9	ND<2.0	11	ND<10
8/3/2010	1400	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	3.6	ND<2.0	79	ND<10
11/11/2010	1200	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4.1	ND<2.0	27	ND<10
MW-8												
5/28/2009	36	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	9.7	9.9	ND<2.0	140	--
9/14/2009	ND<500	ND<12000	--	--	--	ND<25	ND<25	ND<25	14	ND<2.0	60	--
11/13/2009	ND<100	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--
2/5/2010	960	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--
6/7/2010	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	4.0	ND<2.0	21	ND<10
8/3/2010	670	ND<2500	ND<5.0	ND<0.010	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3.9	ND<2.0	74	ND<10
11/11/2010	ND<1000	ND<25000	ND<50	--	ND<50	ND<50	ND<50	ND<50	3.7	ND<2.0	46	ND<10
MW-9												
5/28/2009	40	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--

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)	EDB (504) (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)	Chromium (dissolved) (µg/l)
MW-9 continued												
9/14/2009	24	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	3.0	ND<2.0	520	--
11/13/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.7	6.1	24	ND<10
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.6	2.5	25	ND<10
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	2.6	24	ND<10
MW-10												
5/28/2009	39	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	4.6	2.4	2.0	ND<10	--
9/14/2009	240	ND<3100	--	--	--	ND<6.2	ND<6.2	ND<6.2	2.7	ND<2.0	24	--
11/13/2009	ND<50	ND<1200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	--	--	--
2/5/2010	35	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	6.5	15	ND<10
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	8.7	19	ND<10
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	10	20	11
MW-11												
5/28/2009	140	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	9.4	--	--	--	--
9/14/2009	850	ND<12000	--	--	--	ND<25	ND<25	ND<25	3.3	ND<2.0	14	--
11/13/2009	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--
2/5/2010	1600	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	--	--
6/7/2010	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	3.0	ND<2.0	ND<10	ND<10
8/3/2010	620	ND<2500	ND<5.0	ND<0.010	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.9	ND<2.0	ND<10	ND<10
11/11/2010	ND<100	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.8	ND<2.0	17	ND<10

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	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												
2/24/2009	ND<100	ND<1.0	500	--	18	--	--	--	4.63	3.22	57	59
5/28/2009	ND<500	2.4	550	9.9	25	8.6	130	463	0.80	2.95	119	171
9/14/2009	ND<100	3.7	1600	11	25	6.8	204	429	1.93	3.81	233	146
2/5/2010	--	--	--	--	--	--	--	--	0.83	1.42	66	71
8/3/2010	ND<100	1.8	1100	16	24	6.7	333.4	508	1.10	1.68	172	158
MW-1AR												
5/28/2009	--	--	--	--	--	--	--	--	1.72	0.95	144	177
9/14/2009	2500	570	830	17	39	7.0	205	655	1.68	1.83	235	187
11/13/2009	--	--	--	--	--	--	--	--	3.13	2.98	174	16
2/5/2010	--	--	--	--	--	--	--	--	0.37	0.94	79	75
6/7/2010	490	210	450	21	30	6.1	273.4	554	0.79	1.27	56	78
8/3/2010	550	180	230	21	31	8.1	225.1	537	0.39	0.58	148	108
11/11/2010	370	210	330	20	31	7.6	206.5	545	2.67	2.46	204	216
MW-1BR												
5/28/2009	--	--	--	--	--	--	--	--	0.61	1.37	145	165
9/14/2009	ND<500	230	930	17	59	6.7	207	673	0.46	1.02	228	143
11/13/2009	--	--	--	--	--	--	--	--	5.74	4.59	151	107
2/5/2010	--	--	--	--	--	--	--	--	0.38	0.82	85	79
6/7/2010	380	110	180	27	30	6.6	479.4	539	0.74	1.42	48	10
8/3/2010	240	130	230	26	28	7.3	271.8	548	0.37	0.43	54	59
11/11/2010	250	130	170	ND<0.44	28	7.0	227.8	540	1.78	1.43	212	212
MW-2A												
2/24/2009	110	ND<1.0	130	--	87	--	--	--	3.38	4.44	50	34
MW-3												

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	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-3 continued												
2/24/2009	ND<100	ND<1.0	1100	--	130	--	--	--	5.01	2.30	46	49
5/28/2009	--	--	--	--	--	--	--	--	0.61	4.03	141	85
9/14/2009	--	--	--	--	--	6.6	196	658	0.49	2.02	146	119
2/5/2010	--	--	--	--	--	--	--	--	1.04	2.64	338	71
8/3/2010	--	--	--	--	--	6.7	279.4	601	0.95	2.24	103	103
MW-4												
2/24/2009	ND<100	3.1	250	--	130	--	--	--	6.15	4.27	61	64
5/28/2009	--	--	--	--	--	--	--	--	3.68	3.76	141	55
9/14/2009	--	--	--	--	--	7.1	195	1020	2.16	2.78	142	63
2/5/2010	--	--	--	--	--	--	--	--	8.59	7.70	309	326
8/3/2010	--	--	--	--	--	8.3	280.9	1110	5.26	2.88	102	106
MW-5												
2/24/2009	ND<100	ND<1.0	720	--	64	--	--	--	5.65	2.58	27	34
5/28/2009	--	--	--	--	--	--	--	--	1.71	4.32	138	94
9/14/2009	--	--	--	--	--	4.0	204	609	0.64	2.08	147	115
2/5/2010	--	--	--	--	--	--	--	--	2.08	2.59	295	71
8/3/2010	--	--	--	--	--	8.6	288.2	611	7.12	2.08	62	102
MW-6												
2/24/2009	ND<100	1.2	2300	--	85	--	--	--	3.40	1.29	68	67
5/28/2009	--	--	--	--	--	--	--	--	1.06	1.85	142	56
9/14/2009	--	--	--	--	--	7.1	205	595	0.46	1.07	154	118
2/5/2010	--	--	--	--	--	--	--	--	2.96	2.73	314	135
8/3/2010	--	--	--	--	--	8.0	291.7	530	0.72	1.35	96	103
MW-7												

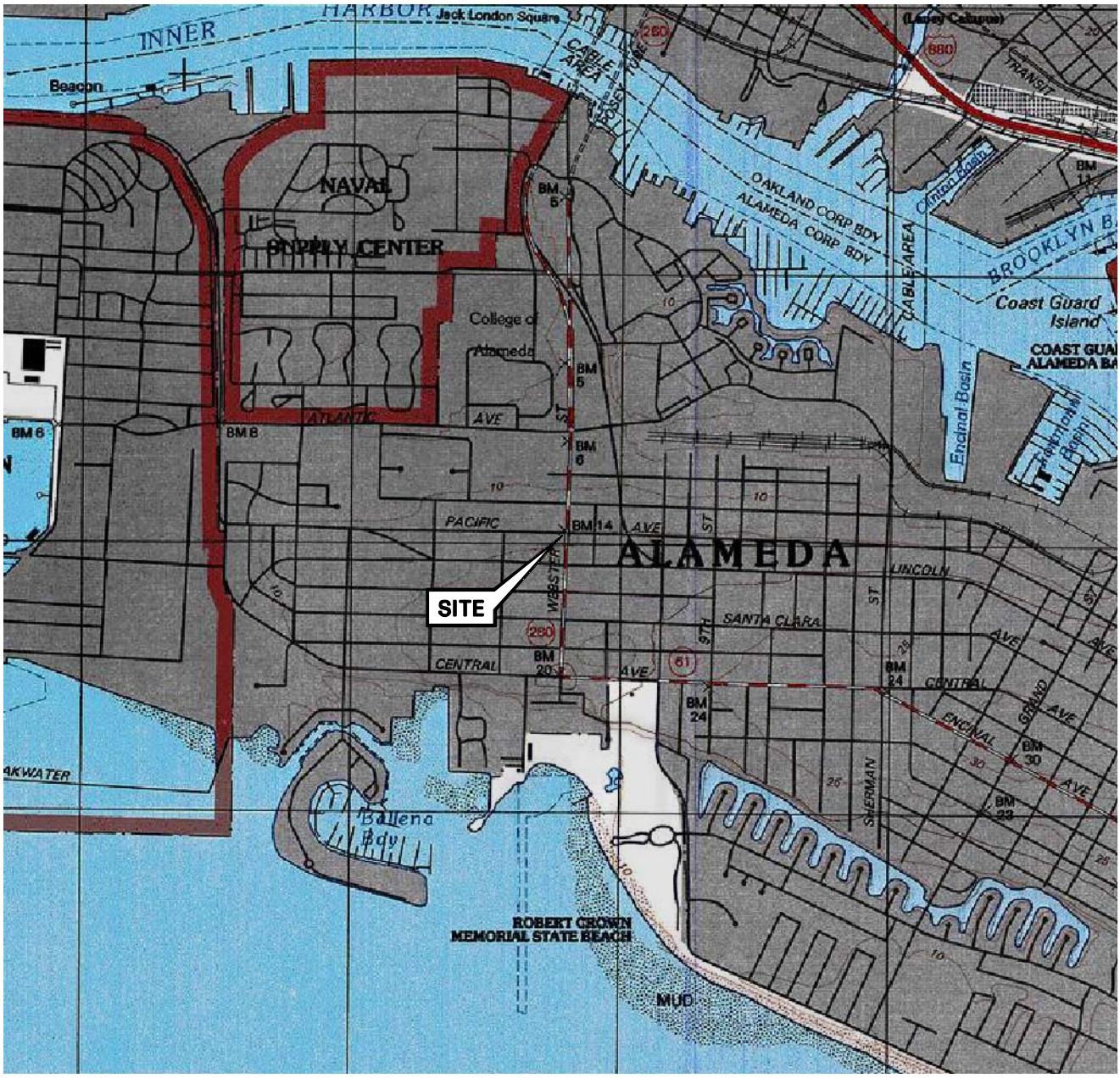
Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	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-7 continued												
5/28/2009	--	--	--	--	--	--	--	--	1.24	0.63	160	124
9/14/2009	3200	2000	2200	4.2	180	6.9	217	1030	0.26	1.35	-13	-53
11/13/2009	--	--	--	--	--	--	--	--	--	0.76	1	-24
2/5/2010	--	--	--	--	--	--	--	--	1.46	0.69	-10	-7
6/7/2010	1200	1200	1500	4.1	72	8.2	342.6	801	0.57	1.10	11	-13
8/3/2010	4500	1100	1500	3.9	69	8.9	105.6	745	2.18	1.05	112	105
11/11/2010	2000	1000	1000	2.3	67	6.3	54.88	740	1.45	2.32	176	190
MW-8												
5/28/2009	ND<1000	280	830	12	130	9.0	124	923	2.22	1.38	146	68
9/14/2009	480	1000	1300	7.7	260	6.2	407	1100	0.28	1.11	151	92
11/13/2009	--	--	--	--	--	--	--	--	3.51	0.84	111	72
2/5/2010	--	--	--	--	--	--	--	--	1.17	0.58	88	63
6/7/2010	620	870	1200	6.1	81	8.3	350.3	791	0.72	1.27	22	35
8/3/2010	1500	860	1300	6.8	85	8.9	218.5	733	3.03	0.90	88	101
11/11/2010	430	810	1000	5.2	83	7.7	229.2	724	1.31	0.98	179	170
MW-9												
9/14/2009	ND<1000	180	4700	5.0	68	7.3	204	580	3.58	4.16	236	171
11/13/2009	--	--	--	--	--	--	--	--	5.06	4.22	81	105
2/5/2010	--	--	--	--	--	--	--	--	0.93	1.25	102	102
6/7/2010	280	200	1100	6.9	41	7.9	380.3	665	0.95	1.46	61	39
8/3/2010	160	120	540	5.8	42	7.2	300.6	651	1.02	0.70	48	64
11/11/2010	ND<500	180	1000	6.0	35	6.5	217.8	686	1.92	2.72	201	207
MW-10												
5/28/2009	150	280	350	9.1	30	7.1	139	661	0.30	1.76	151	156

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	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-10 continued												
9/14/2009	210	280	380	6.3	33	6.1	205	675	2.19	0.67	235	114
11/13/2009	--	--	--	--	--	--	--	--	1.20	1.58	95	77
2/5/2010	--	--	--	--	--	--	--	--	0.83	0.98	87	87
6/7/2010	260	18	340	10	29	8.1	379.1	490	3.24	3.26	82	84
8/3/2010	150	10	150	12	27	8.4	315.2	476	3.71	3.62	74	62
11/11/2010	ND<100	9.2	160	13	28	7.6	175.6	529	3.07	4.23	190	207
MW-11												
5/28/2009	--	--	--	--	--	--	--	--	0.22	0.80	1.56	147
9/14/2009	310	570	740	0.73	37	6.7	192	780	0.81	0.82	224	49
11/13/2009	--	--	--	--	--	--	--	--	0.35	1.52	53	23
2/5/2010	--	--	--	--	--	--	--	--	1.33	1.56	280	126
6/7/2010	310	280	980	1.5	20	7.0	501.3	737	0.70	1.31	97	44
8/3/2010	100	440	730	3.3	20	6.9	317.6	727	0.54	1.21	12	-20
11/11/2010	990	610	830	2.7	23	6.6	145.0	718	0.60	2.02	192	211

FIGURES



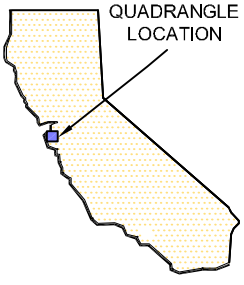
N

SOURCE:

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

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

SCALE 1: 24,000



TRC

FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

VICINITY MAP

FIGURE 1

PS=1:1 L:\QMS VICINITY MAPS\0843VM.DWG Mar 02, 2010 – 9:52am bschmidt

LEGEND

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

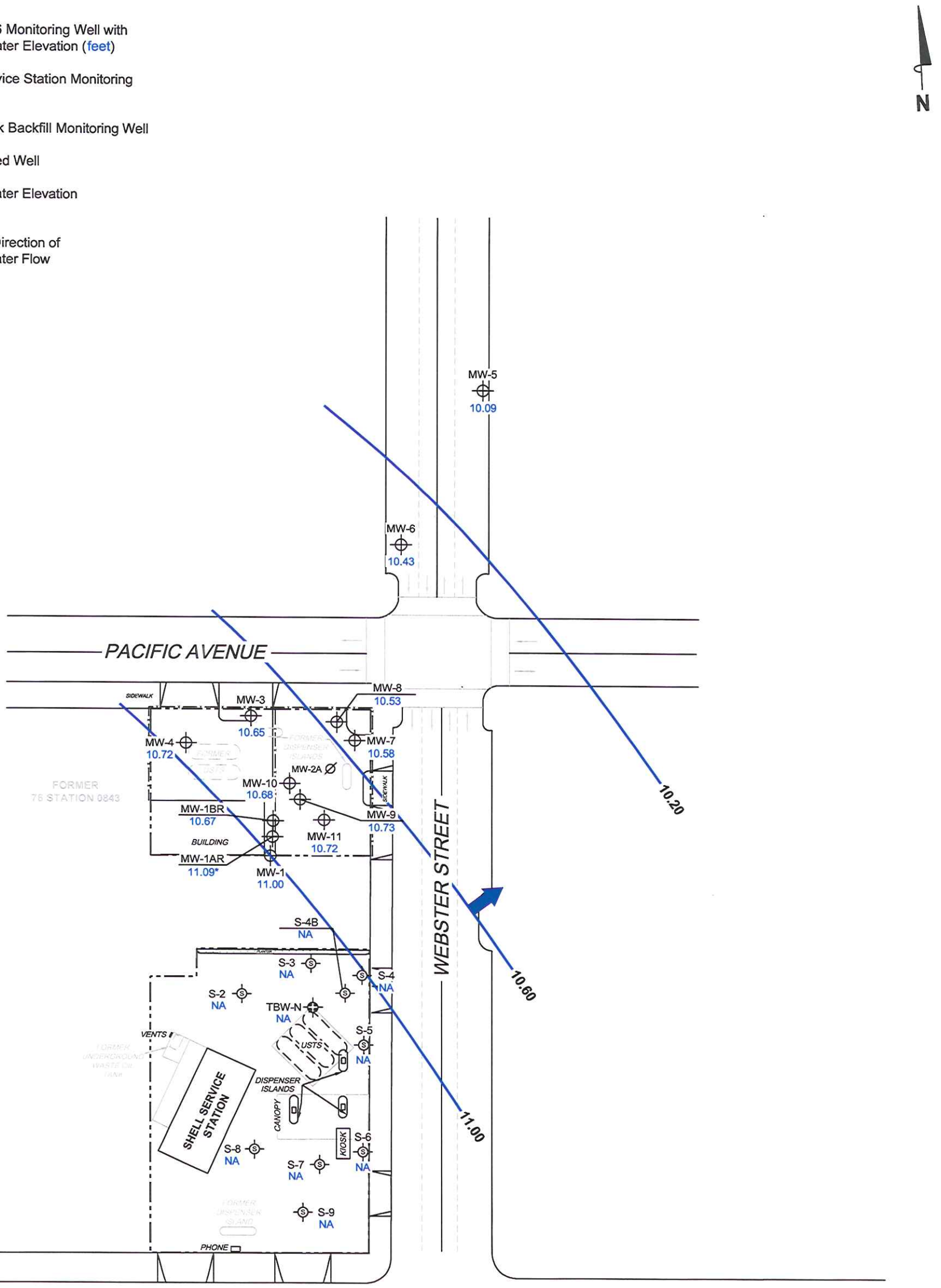
S-9 — Shell Service Station Monitoring Well

TBW-N — Shell Tank Backfill Monitoring Well

MW-2A — Abandoned Well

11.00 — Groundwater Elevation Contour

General Direction of Groundwater Flow



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. * = not included in groundwater contour interpretation. UST = underground storage tank. Shell Service Station not provided this quarter.

SCALE (FEET)

0 60

TRC

PROJECT: 173845

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

GROUNDWATER ELEVATION CONTOUR MAP
November 11, 2010

FIGURE 2

LEGEND

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

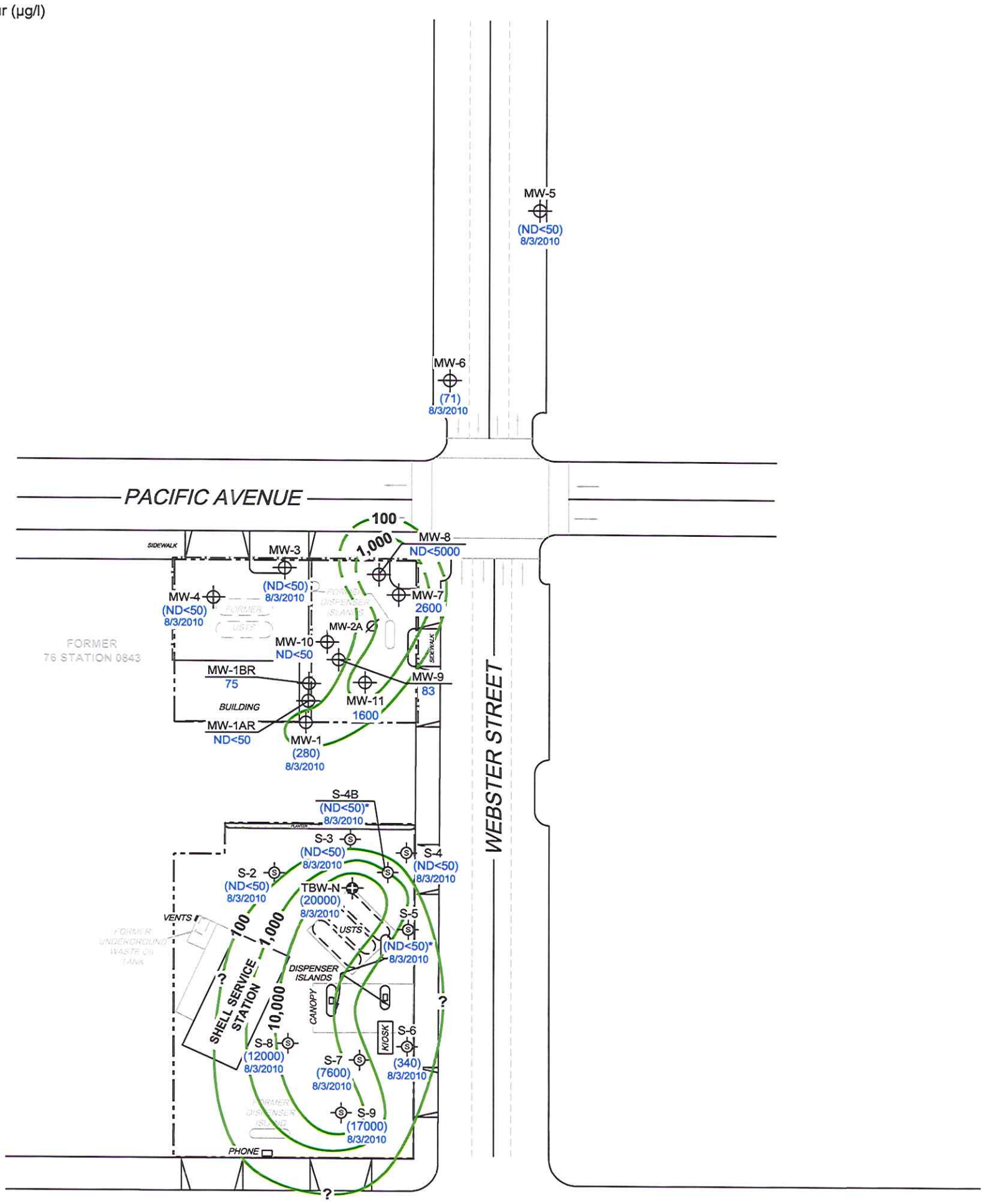
S-9 Ⓢ Shell Service Station Monitoring Well

TBW-N ⊕ Shell Tank Backfill Monitoring Well

MW-2A ∅ Abandoned Well

10,000 Dissolved-Phase TPH-G 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.
( ) = representative historical value. Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank. Shell Service Station not provided this quarter.

SCALE (FEET)
0 60

TRC

PROJECT: 173845

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

DISSOLVED-PHASE TPH-G CONCENTRATION MAP
November 11, 2010

FIGURE 3

LEGEND

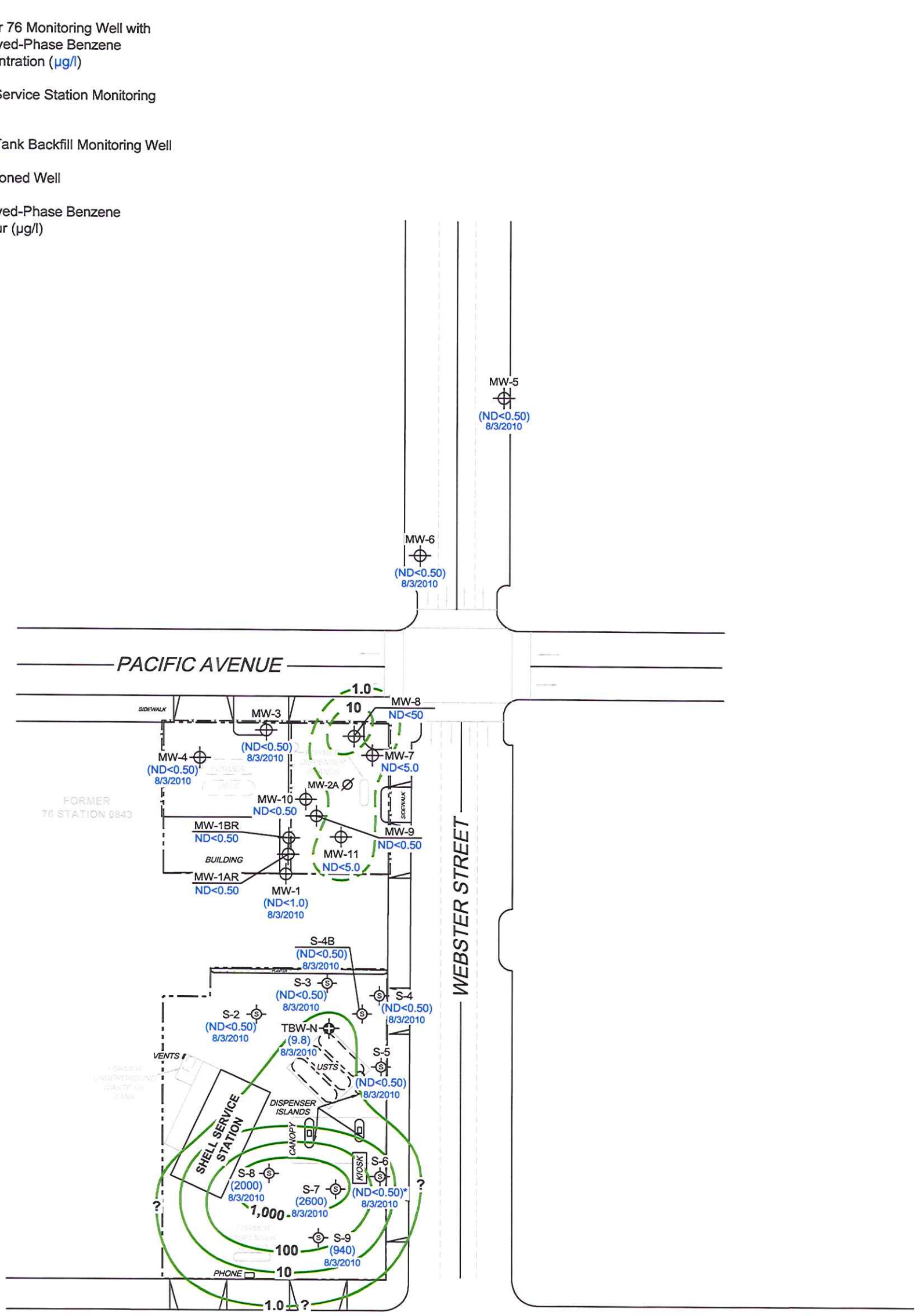
MW-11 Former 76 Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

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)



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. * = not included in contour interpretation. Dashes indicate contour based on non-detect at elevated detection limit. ( ) = representative historical value. UST = underground storage tank. Shell Service Station not provided this quarter.

SCALE (FEET)
0 60

TRC

PROJECT: 173845

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

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
November 11, 2010

FIGURE 4

LEGEND

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

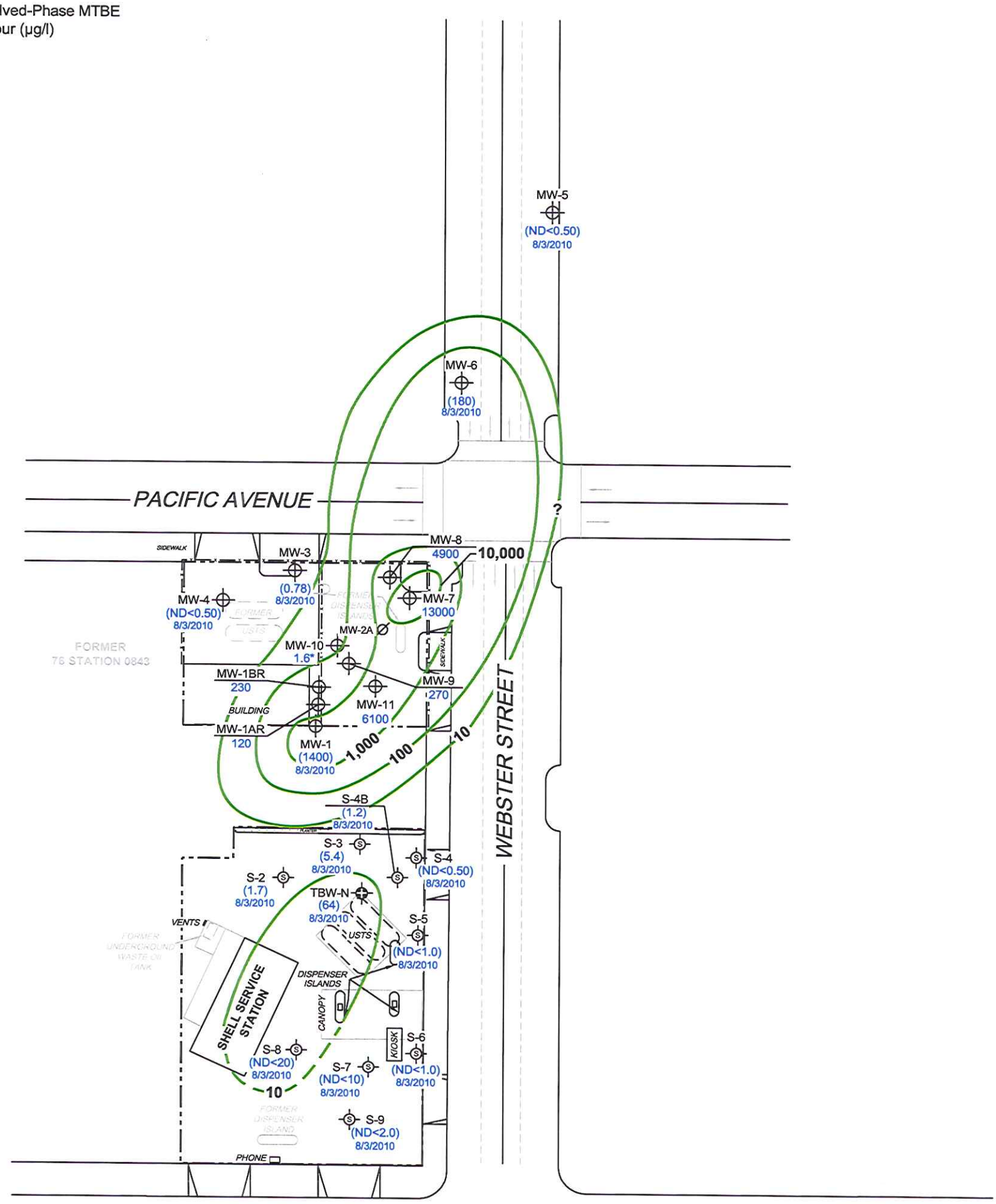
S-9 Shell Service Station Monitoring Well

TBW-N Shell Tank Backfill Monitoring Well

MW-2A 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. ( ) = representative historical value. Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank. Shell Service Station not provided this quarter. Results obtained using EPA Method 8260B.

SCALE (FEET)

0 60

TRC

PROJECT: 173845

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

DISSOLVED-PHASE MTBE CONCENTRATION MAP
November 11, 2010

FIGURE 5

LEGEND

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

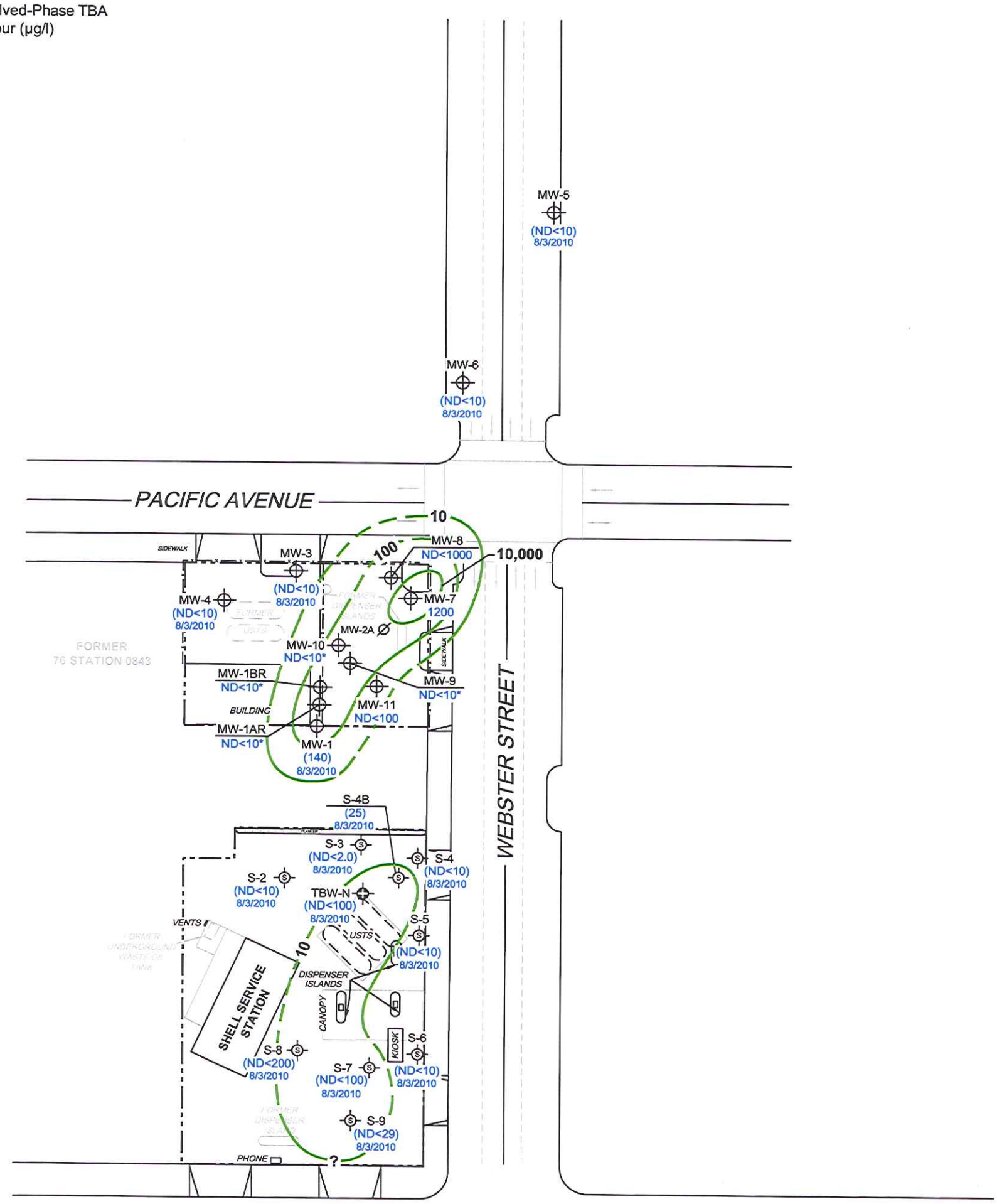
S-9 Shell Service Station Monitoring Well

TBW-N Shell Tank Backfill Monitoring Well

MW-2A Abandoned Well

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

N



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TBA = tertiary butyl alcohol. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. * = not included in contour interpretation. ( ) = representative historical value. Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank. Shell Service Station not provided this quarter. Results obtained using EPA Method 8260B.

SCALE (FEET)
0 60

TRC

PROJECT: 173845

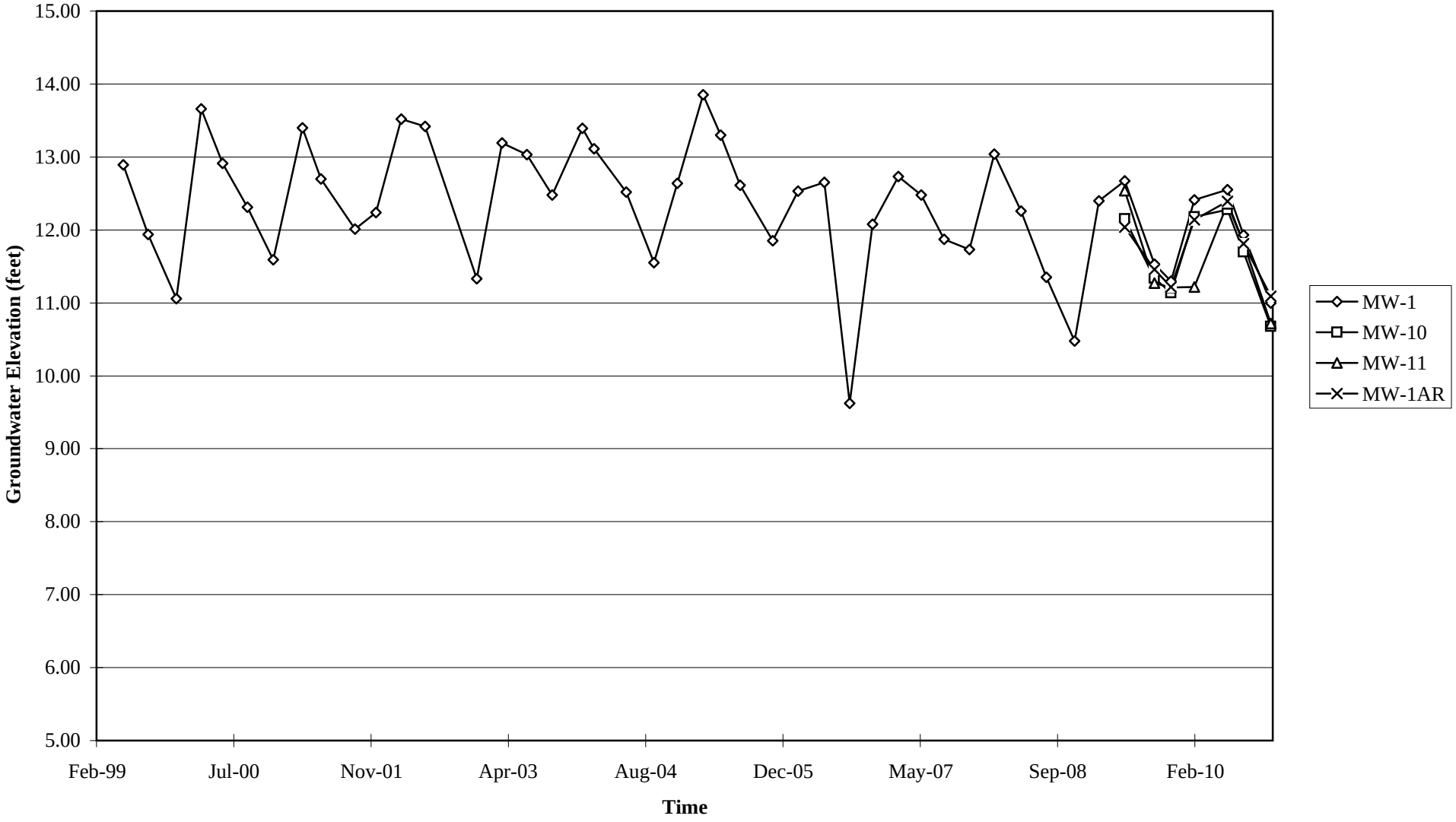
FACILITY:
FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

DISSOLVED-PHASE TBA CONCENTRATION MAP
November 11, 2010

FIGURE 6

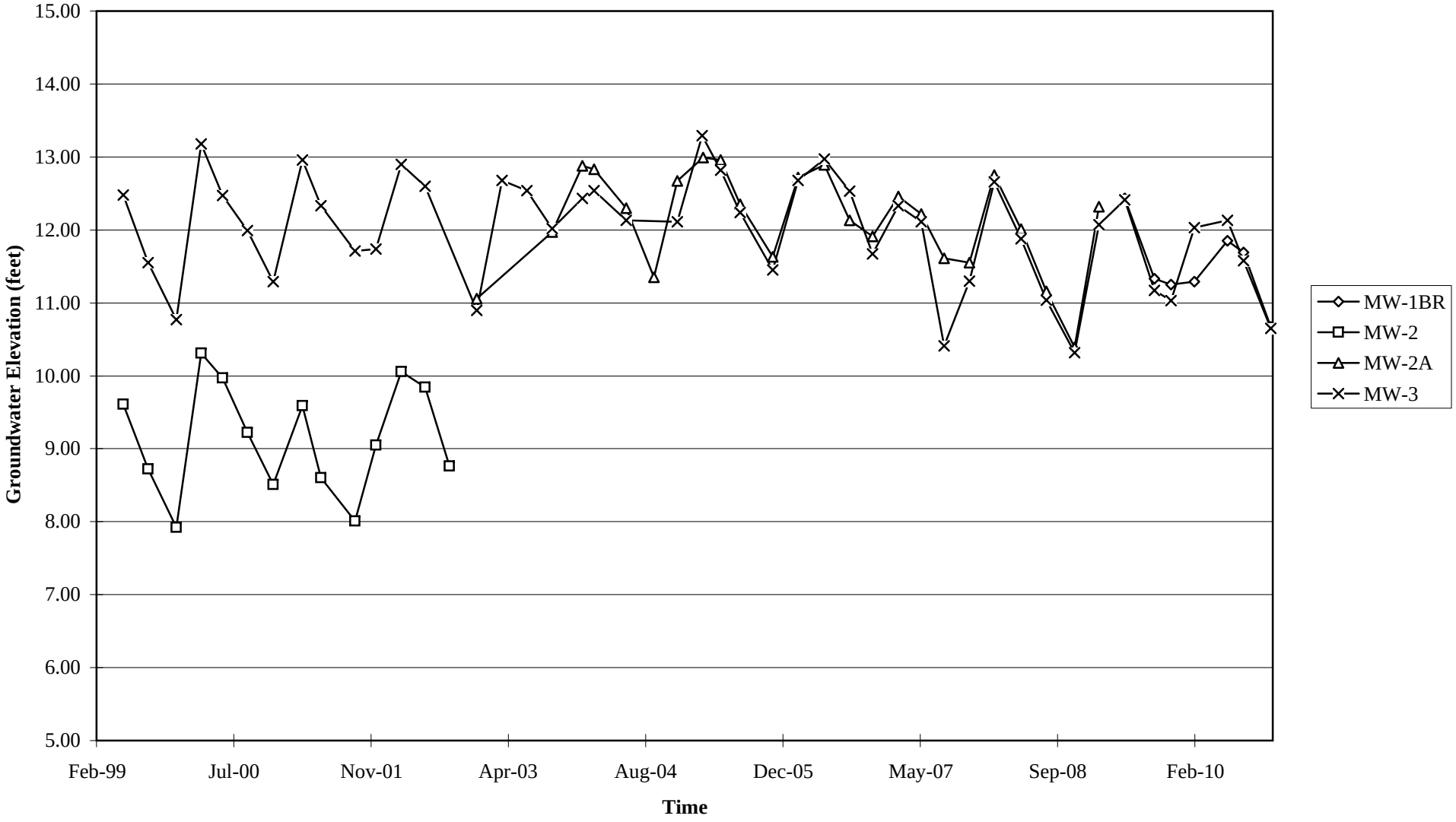
GRAPHS

Groundwater Elevations vs. Time
Former 76 Station 0843



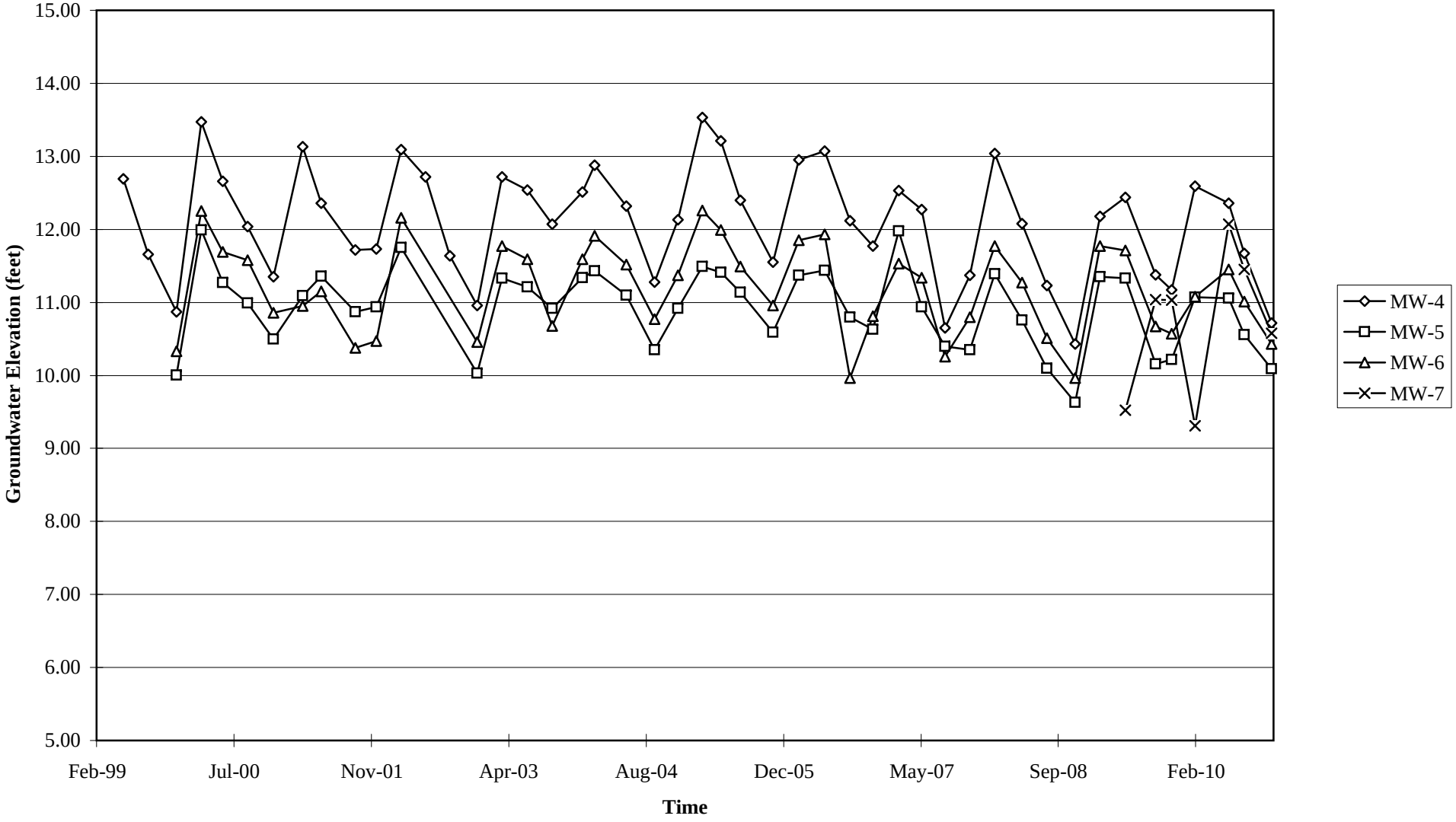
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time
Former 76 Station 0843



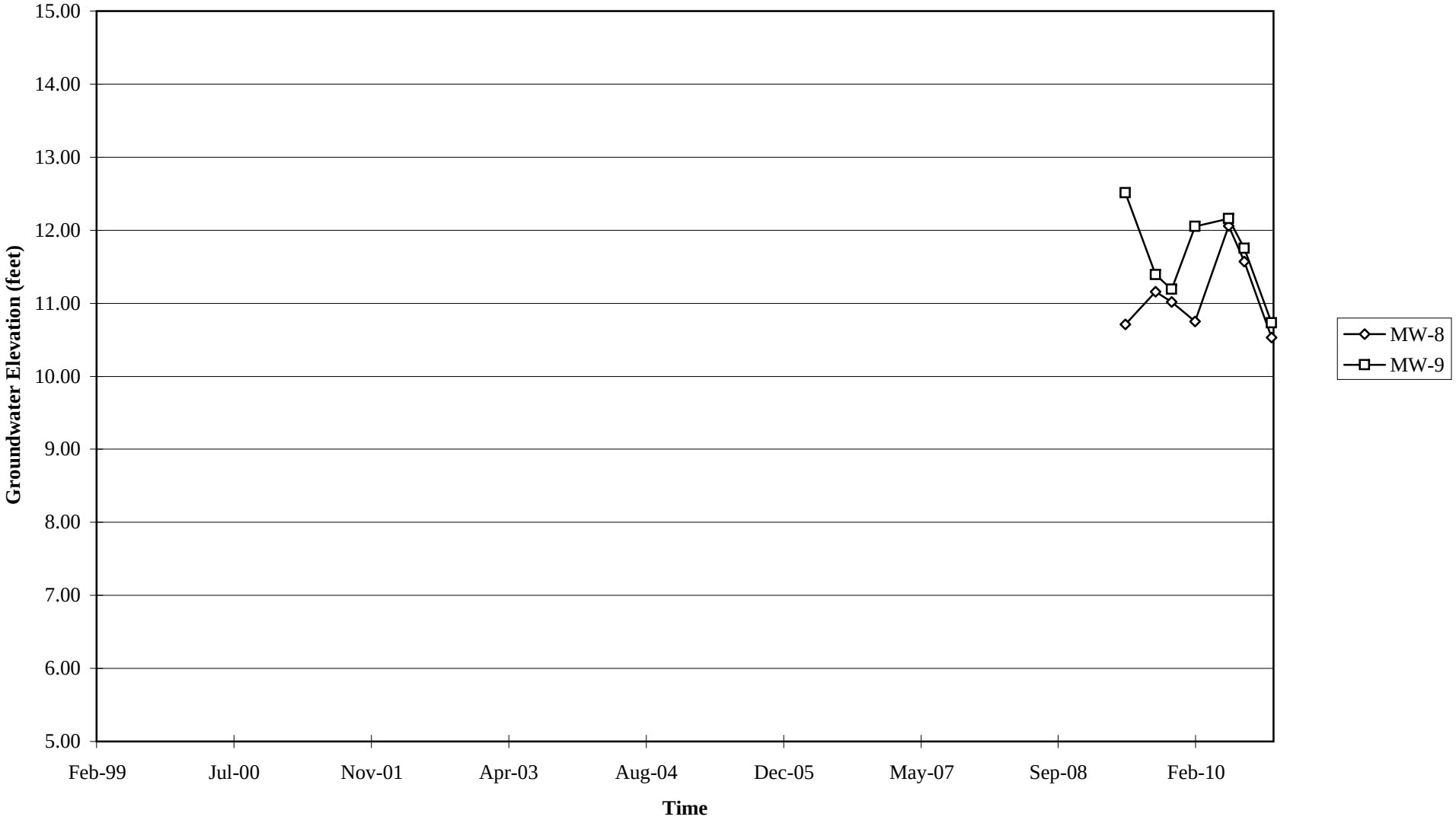
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time
Former 76 Station 0843



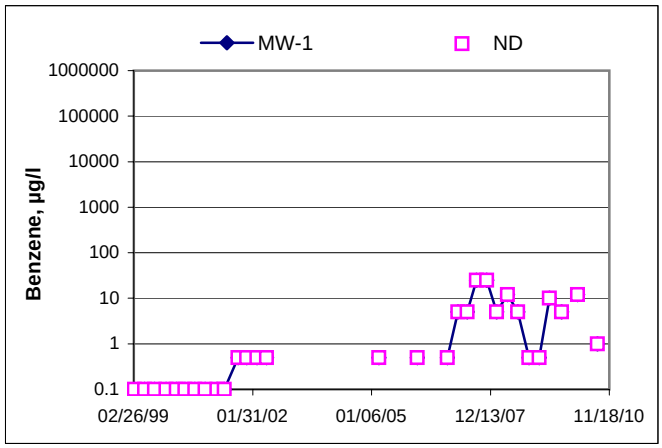
Elevations may have been corrected for apparent changes due to resurvey

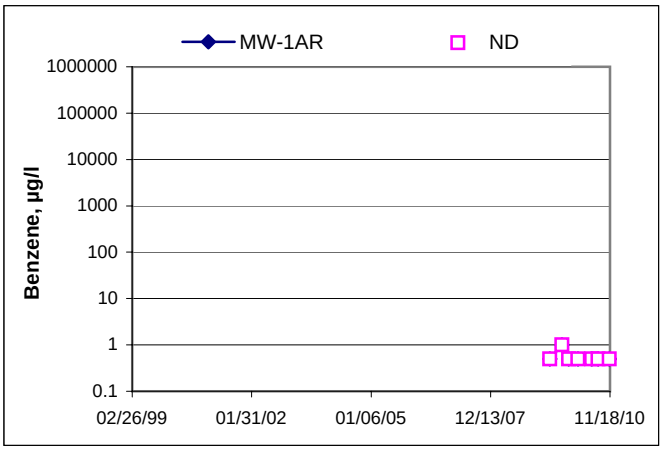
Groundwater Elevations vs. Time
Former 76 Station 0843

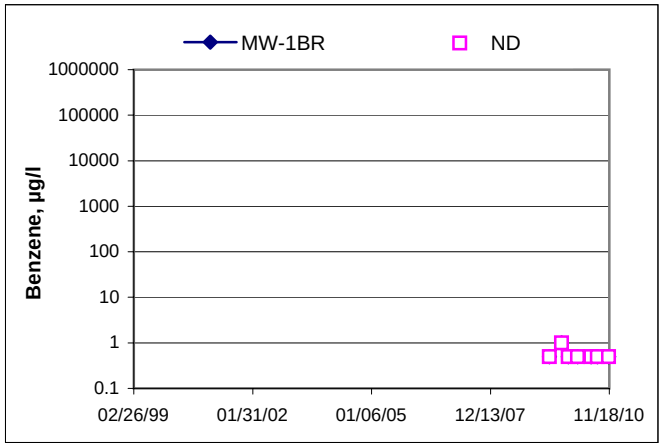


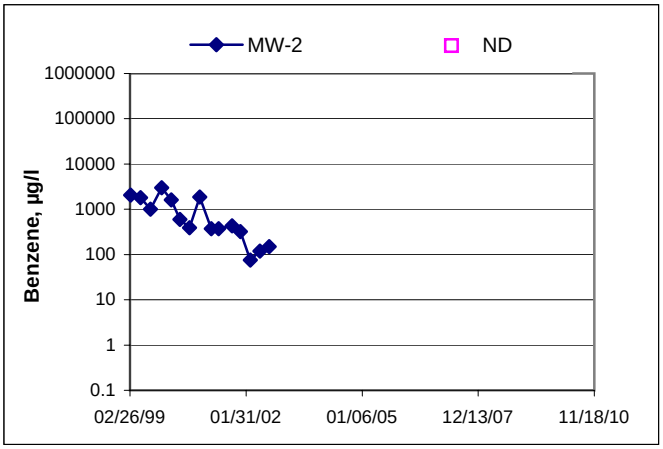
Elevations may have been corrected for apparent changes due to resurvey

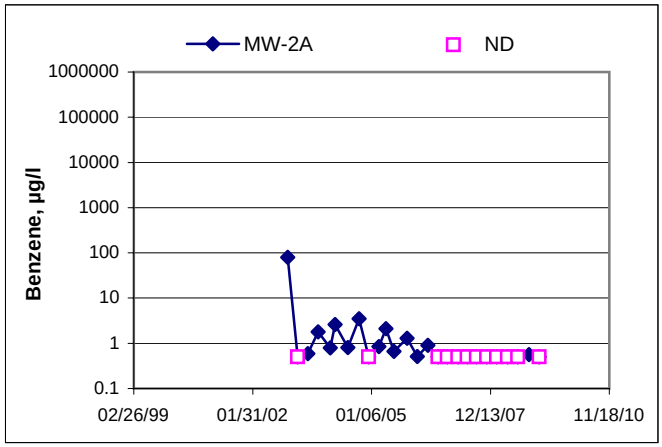
Benzene Concentrations vs Time
Former 76 Station 0843

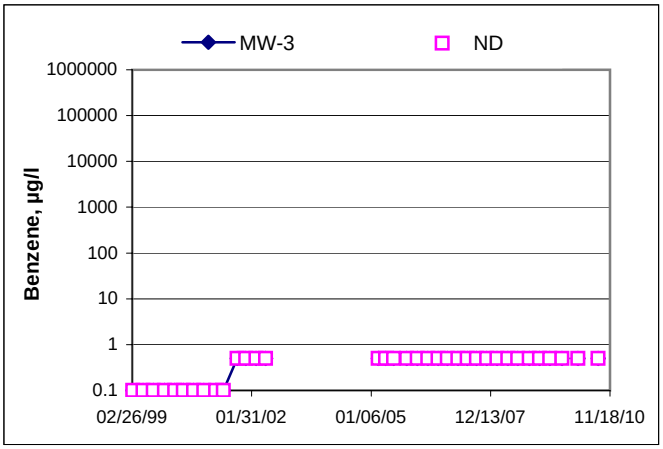


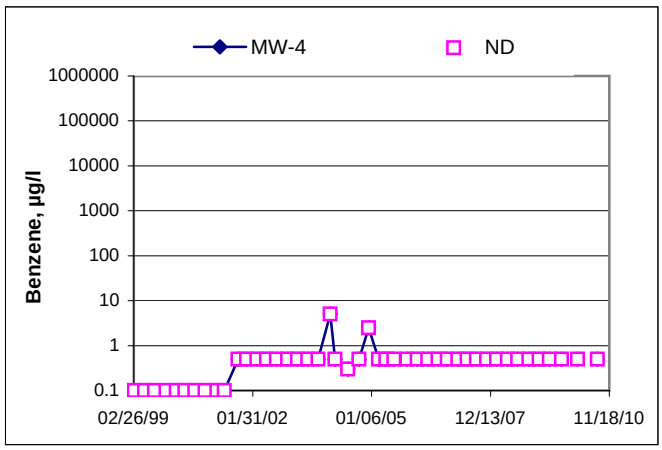


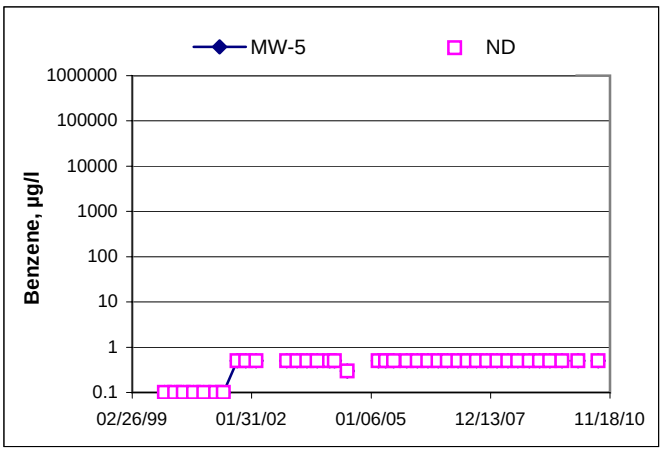






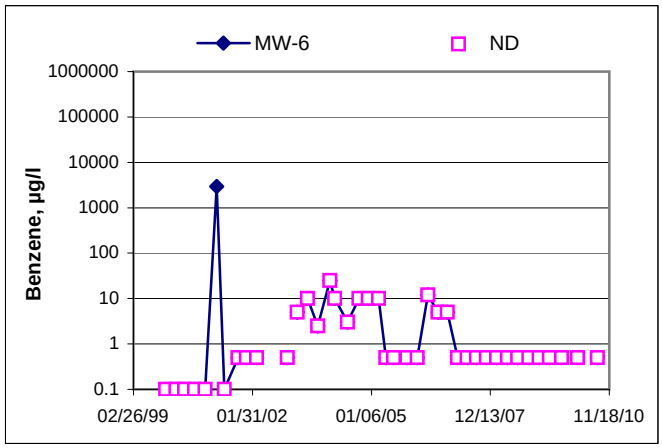


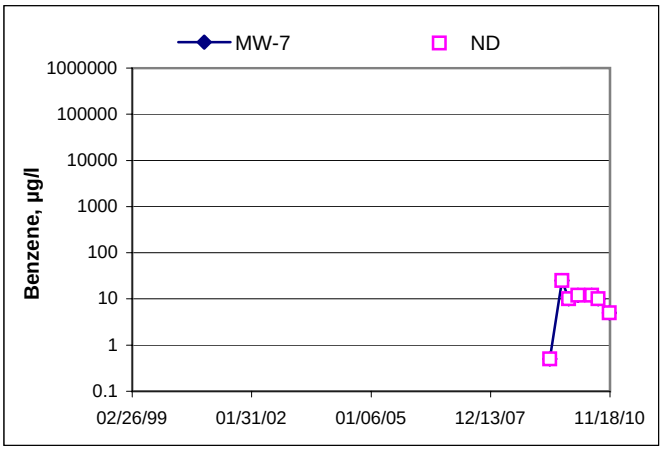


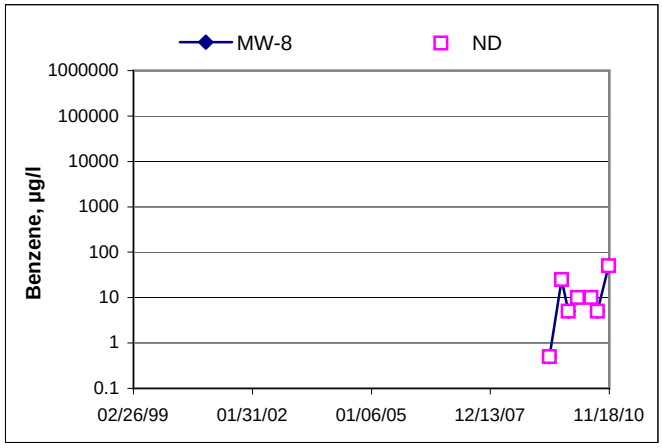


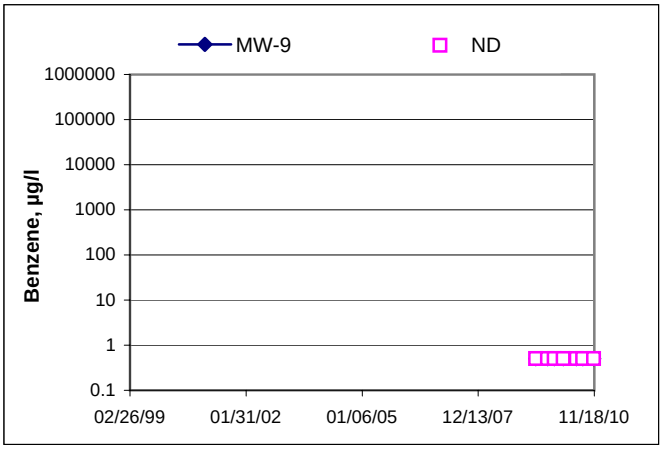
Benzene Concentrations vs Time

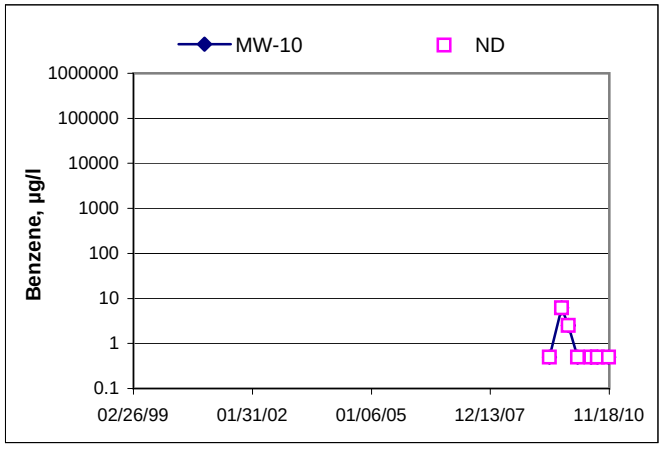
Former 76 Station 0843

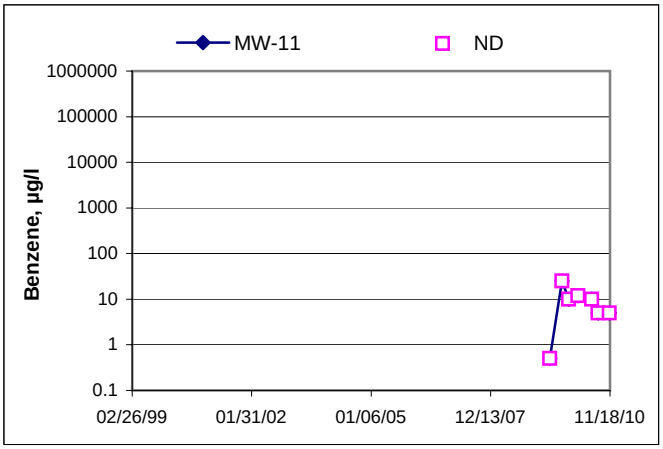












GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

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

Fluid Level Measurements

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

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

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

Purging and Groundwater Parameter Measurement

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

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

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

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

Groundwater Sample Collection

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

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

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

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

Sequence of Gauging, Purging and Sampling

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

Decontamination

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

Exceptions

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

FIELD MONITORING DATA SHEET

Technician: Basilio Job #/Task #: 173845-Fazo Date: 11-11-10

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

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-1	✓	0640	19.85	8.13	—	—	N/S	2" Monitor
MW-1AR	✓	0650	29.84	8.20	—	—	0900	2"
MW-1BR	✓	0659	34.57	8.46	—	—	0910	2"
MW-9	✓	0705	24.48	8.02	—	—	0952	2"
MW-10	✓	0709	29.25	8.16	—	—	1000	2"
MW-11	✓	0714	27.54	8.00	—	—	1042	2"
MW-7	✓	0719	29.18	7.23	—	—	1120	2"
MW-8	✓	0723	29.55	7.60	—	—	1135	2"
MW-3	✓	0730	19.95	7.40	—	—	N/S	2" Monitor
MW-4	✓	0739	17.75	7.42	—	—	N/S	2" |
MW-5	✓	0745	20.24	6.36	—	—	N/S	2" |
MW-6	✓	0750	20.05	6.54	—	—	N/S	2" ✓

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Banda

Site: 0843 Project No.: 173845 Date: 11-11-20

Well No. MW-1AR Purge Method: Sub

Depth to Water (feet): 8.20 Depth to Product (feet): —

Total Depth (feet) 29.84 LPH & Water Recovered (gallons): —

Water Column (feet): 21.64 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 12.52 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							2.46	204	
0828			4	499.4	15.4	5.82	2.06	209	
	0832		8	516.4	16.8	5.59	2.18	212	
0834	0836		12	524.0	17.3	5.55	2.67	216	
						BM			

Static at Time Sampled	Total Gallons Purged	Sample Time
9.20	12	0900

Comments:

Well No. MW-BR Purge Method: Sub

Depth to Water (feet): 8.46 Depth to Product (feet): —

Total Depth (feet) 34.57 LPH & Water Recovered (gallons): —

Water Column (feet): 26.11 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 13.68 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							1.43	212	
0839			5	483.9	17.9	5.57	1.65	216	
	0842		10	517.0	18.0	5.55	1.10	211	
0844	0849		15	519.8	17.7	5.58	1.78	212	

Static at Time Sampled	Total Gallons Purged	Sample Time
9.10	15	0910

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Banks

Site: 0843 Project No.: 173845 Date: 11-11-10

Well No. MW-9 Purge Method: SvS

Depth to Water (feet): 8.02 Depth to Product (feet): —

Total Depth (feet) 24.48 LPH & Water Recovered (gallons): —

Water Column (feet): 16.46 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.31 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							2.72	201	
0928			3	532.9	18.3	5.89	1.68	204	
	0931		6	568.2	19.1	5.81	1.61	205	
0933	0935		9	647.4	19.6	5.77	1.92	207	

Static at Time Sampled	Total Gallons Purged	Sample Time
9.10	9	0952

Comments:

Well No. MW-10 Purge Method: SvS

Depth to Water (feet): 8.16 Depth to Product (feet): —

Total Depth (feet) 29.25 LPH & Water Recovered (gallons): —

Water Column (feet): 21.09 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 12.37 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							4.23	190	
0937			4	483.9	20.2	5.79	3.34	201	
			8	504.8	20.0	5.65	3.18	202	
	0944		12	508.9	19.9	5.58	3.07	207	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.60	12	1000

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 0843 Project No.: 173845 Date: 11-11-10

Well No. MW-11 Purge Method: Sub

Depth to Water (feet): 8.00 Depth to Product (feet): —

Total Depth (feet) 27.54 LPH & Water Recovered (gallons): —

Water Column (feet): 19.54 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.90 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							2.02	192	
1027			4	709.9	19.1	5.74	1.05	208	
			8	711.1	19.3	5.63	0.89	211	
	1034		12	709.7	19.4	5.56	0.60	211	

Static at Time Sampled	Total Gallons Purged	Sample Time
10.50	12	1042

Comments:

Well No. MW-7 Purge Method: Sub

Depth to Water (feet): 7.23 Depth to Product (feet): —

Total Depth (feet) 29.18 LPH & Water Recovered (gallons): —

Water Column (feet): 21.95 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.62 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							2.32	176	
1050			4	695.3	19.4	6.12	1.47	184	
	1055		8	697.4	20.3	5.60	1.35	189	
1101	1105		12	717.3	20.3	5.54	1.45	190	

Static at Time Sampled	Total Gallons Purged	Sample Time
11.60	12	1120

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 0843 Project No.: 173845 Date: 11-11-10

Well No. MW-8 Purge Method: SVS

Depth to Water (feet): 7.60 Depth to Product (feet): —

Total Depth (feet) 29.55 LPH & Water Recovered (gallons): —

Water Column (feet): 21.95 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.99 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							0.98	179	
1106			4	672.1	20.4	5.66	0.52	182	
	1109		8	674.3	20.7	5.62	1.09	173	
1113	1116		12	688.4	20.3	5.67	1.31	170	

Static at Time Sampled	Total Gallons Purged	Sample Time
7.60	12	1135

Comments:

Well No. Purge Method:

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

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

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

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

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

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 12/01/2010

Anju Farfan

TRC
123 Technology Drive
Irvine, CA 92618

RE: 0843
BC Work Order: 1015888
Invoice ID: B090907

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

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

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

CHAIN OF CUSTODY

10-15888

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 # 02807-4512968186
State: CA Zip:	Project #: 173845
Conoco Phillips Mgr: Bill Borgh	Sampler Name: Basilio

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	~~[illegible]~~ Ferrous Iron by 3500-D, TOC by 415.1	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B EDB/EDC by 8260B	TPH -G by GC/MS	Specific Conductance by 120.1, DO by SM4500-O, ORP by ASTM D1498	Sulfate by 300.0, Nitrate by 300.0, Dissolved Manganese by 200.8, ~~Dissolved~~	Dissolved Chromium by 6010, Chromium VI by 7196, Total Manganese by 200.8, Total Chromium by 6010	Turnaround Time Requested
-1		MW-10	11-11-10 1000	g				X	X	X	X	X	X	X	STD
-2		MW-1AR	0900	↓				↓	↓	↓	↓	↓	↓	↓	↓
-3		MW-9	0952	↓				↓	↓	↓	↓	↓	↓	↓	↓
-4		MW-1BR	0910	↓				↓	↓	↓	↓	↓	↓	↓	↓
-5		MW-8	1135	↓				↓	↓	↓	↓	↓	↓	↓	↓
-6		MW-11	1042	↓				↓	↓	↓	↓	↓	↓	↓	↓
-7		MW-7	1120	↓				↓	↓	↓	↓	↓	↓	↓	↓

Comments:	Relinquished by: (Signature)	Received by:	Date & Time
	[signature]	Ross Dinlay	11-11-10 1335
GLOBAL ID:	Ross Dinlay 11-11-10	R Ringuel	11-11-10 1740
T0600102263	R Ringuel 11-11-10 2100	[signature]	11-11-10 2100

Chain of Custody and Cooler Receipt Form for 1015888 Page 2 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 08/24/08 Page 1 Of 2

Submission #: 10-15888

SHIPPING INFORMATION	SHIPPING CONTAINER
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☑ None ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	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: VOA Thermometer ID: #163 Date/Time: 11/11/10 2110

Temperature: A 4.9 °C / C 4.9 °C Analyst Init: [illegible]

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										/
PT INORGANIC CHEMICAL METALS		C		C						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON		D	D	D	D					
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL		A/B	A/B	A/B	A/B	A/B	A/B	A/B		
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		EF	EF					
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON		G	G	G						
ENCORE										

SUB-OUT LIST
DISTRIBUTION
CHECK

(T) SHORT HOLDING TIME
(A) (B) (C) (D) NO$_3$ NO$_2$ OP SS
(ND) Cl_2 BOD MBAS COT

Comments:

Sample Numbering Completed By: JOW Date/Time: 11-11-10 2202

A = Actual / C = Corrected

(H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD)

Chain of Custody and Cooler Receipt Form for 1015888 Page 3 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 08/24/08 Page 2 of 2

Submission #: 1015888

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

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

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

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PR Thermometer ID: #163 Date/Time: 11/11/10 2110

Temperature: A 1.2 °C / C 1.2 °C Analyst Init: ES

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B				B	B	B			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C		C		C	C	C			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
1oz. NITRATE/NITRITE										
PT TOTAL ORGANIC CARBON	D					D	D			
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 508/608/8082										
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		EF			EF	EF			
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	G				G	G	G			
ENCORE										

Comments:
Sample Numbering Completed By: JDW Date/Time: 11-10-2202
A = Actual / C = Corrected

(N:\QC\ALL\PSL\LAB_DOCS\FORMS\SAMREC2.VPD)

TRC
123 Technology Drive
Irvine, CA 92618

Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1015888-01	**COC Number:**	---	**Receive Date:** 11/11/2010 21:00
	Project Number:	0843	**Sampling Date:** 11/11/2010 10:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10	**Sample Matrix:** Water
	Sampled By:	TRCI	Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-10
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1015888-02	**COC Number:**	---	**Receive Date:** 11/11/2010 21:00
	Project Number:	0843	**Sampling Date:** 11/11/2010 09:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1AR	**Sample Matrix:** Water
	Sampled By:	TRCI	Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-1AR
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1015888-03	**COC Number:**	---	**Receive Date:** 11/11/2010 21:00
	Project Number:	0843	**Sampling Date:** 11/11/2010 09:52
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9	**Sample Matrix:** Water
	Sampled By:	TRCI	Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-9
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1015888-04	**COC Number:**	---	**Receive Date:** 11/11/2010 21:00
	Project Number:	0843	**Sampling Date:** 11/11/2010 09:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1BR	**Sample Matrix:** Water
	Sampled By:	TRCI	Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-1BR
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1015888-05	**COC Number:**	---	**Receive Date:** 11/11/2010 21:00
	Project Number:	0843	**Sampling Date:** 11/11/2010 11:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-8	**Sample Matrix:** Water
	Sampled By:	TRCI	Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1015888-06	**COC Number:**	---	**Receive Date:** 11/11/2010 21:00
	Project Number:	0843	**Sampling Date:** 11/11/2010 10:42
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11	**Sample Matrix:** Water
	Sampled By:	TRCI	Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-11
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1015888-07	**COC Number:**	---	**Receive Date:** 11/11/2010 21:00
	Project Number:	0843	**Sampling Date:** 11/11/2010 11:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7	**Sample Matrix:** Water
	Sampled By:	TRCI	Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-7
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015888-01 | **Client Sample Name:** 0843, MW-10, 11/11/2010 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**1.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	105	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.2	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/18/10	11/19/10 01:55	KEA	MS-V12	1	BTK1308

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (General Chemistry)

BCL Sample ID: 1015888-01 | **Client Sample Name:** 0843, MW-10, 11/11/2010 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	13	mg/L	0.44	EPA-300.0	ND		1
Sulfate	28	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	529	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	1.8	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	7.6	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	175.6	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/10	11/12/10 03:19	TMS	IC1	1	BTK1030
2	EPA-120.1	11/12/10	11/12/10 18:16	RML	MET-1	1	BTK1085
3	SM-3500-FeD	11/14/10	11/14/10 19:00	MRM	SPEC05	1	BTK1071
4	EPA-415.1	11/29/10	11/30/10 08:00	TMS	TOC2	1	BTK2107
5	SM-4500OG	11/12/10	11/12/10 07:20	HPR	YSI-57	1	BTK1018
6	ASTM-D1498	11/12/10	11/12/10 11:35	RML	MET-1	1	BTK1086

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (Metals)

BCL Sample ID: 1015888-01 | **Client Sample Name:** 0843, MW-10, 11/11/2010 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	10	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	11	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	9.2	ug/L	1.0	EPA-200.8	ND		3
Total Chromium	20	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	160	ug/L	1.0	EPA-200.8	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/12/10	11/12/10 08:02	TDC	KONE-1	1	BTK1144
2	EPA-6010B	11/12/10	11/15/10 09:20	ARD	PE-OP1	1	BTK1076
3	EPA-200.8	11/12/10	11/29/10 13:50	PPS	PE-EL1	1	BTK1785
4	EPA-6010B	11/17/10	11/18/10 00:00	JRG	PE-OP1	1	BTK1345
5	EPA-200.8	11/22/10	11/29/10 10:59	PPS	PE-EL1	1	BTK1685

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015888-02 | **Client Sample Name:** 0843, MW-1AR, 11/11/2010 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**120**	**ug/L**	**1.0**	**EPA-8260**	**ND**	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	99.9	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	107	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	94.0	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.4	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/18/10	11/19/10 01:37	KEA	MS-V12	1	BTK1308
2	EPA-8260	11/18/10	11/19/10 15:25	KEA	MS-V12	2	BTK1308

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (General Chemistry)

BCL Sample ID: 1015888-02 | **Client Sample Name:** 0843, MW-1AR, 11/11/2010 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	20	mg/L	0.44	EPA-300.0	ND		1
Sulfate	31	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	545	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	370	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	2.3	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	7.6	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	206.5	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/10	11/12/10 03:33	TMS	IC1	1	BTK1030
2	EPA-120.1	11/12/10	11/12/10 18:34	RML	MET-1	1	BTK1085
3	SM-3500-FeD	11/14/10	11/14/10 19:00	MRM	SPEC05	1	BTK1071
4	EPA-415.1	11/29/10	11/30/10 08:54	TMS	TOC2	1	BTK2107
5	SM-4500OG	11/12/10	11/12/10 07:20	HPR	YSI-57	1	BTK1018
6	ASTM-D1498	11/12/10	11/12/10 11:39	RML	MET-1	1	BTK1086

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (Metals)

BCL Sample ID: 1015888-02 | **Client Sample Name:** 0843, MW-1AR, 11/11/2010 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**210**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	3
Total Chromium	**14**	**ug/L**	**10**	**EPA-6010B**	**ND**		4
Total Recoverable Manganese	**330**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/12/10	11/12/10 08:02	TDC	KONE-1	1	BTK1144
2	EPA-6010B	11/12/10	11/15/10 08:38	ARD	PE-OP1	1	BTK1076
3	EPA-200.8	11/12/10	11/29/10 13:21	PPS	PE-EL1	5	BTK1785
4	EPA-6010B	11/17/10	11/18/10 00:03	JRG	PE-OP1	1	BTK1345
5	EPA-200.8	11/22/10	11/29/10 11:26	PPS	PE-EL1	5	BTK1685

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015888-03 | **Client Sample Name:** 0843, MW-9, 11/11/2010 9:52:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**270**	**ug/L**	**2.5**	**EPA-8260**	**ND**	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**83**	**ug/L**	**50**	**Luft-GC/MS**	**ND**	**A90**	1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	97.8	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	106	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	93.1	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.1	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/18/10	11/19/10 01:19	KEA	MS-V12	1	BTK1308
2	EPA-8260	11/18/10	11/19/10 15:07	KEA	MS-V12	5	BTK1308

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (General Chemistry)

BCL Sample ID: 1015888-03 | **Client Sample Name:** 0843, MW-9, 11/11/2010 9:52:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	6.0	mg/L	0.44	EPA-300.0	ND		1
Sulfate	35	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	686	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	500	SM-3500-FeD	ND	A10	3
Non-Volatile Organic Carbon	2.4	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	6.5	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	217.8	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/10	11/12/10 04:13	TMS	IC1	1	BTK1030
2	EPA-120.1	11/12/10	11/12/10 18:39	RML	MET-1	1	BTK1085
3	SM-3500-FeD	11/14/10	11/14/10 19:00	MRM	SPEC05	5	BTK1071
4	EPA-415.1	11/29/10	11/30/10 09:07	TMS	TOC2	1	BTK2107
5	SM-4500OG	11/12/10	11/12/10 07:20	HPR	YSI-57	1	BTK1018
6	ASTM-D1498	11/12/10	11/12/10 11:43	RML	MET-1	1	BTK1086

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (Metals)

BCL Sample ID: 1015888-03 | **Client Sample Name:** 0843, MW-9, 11/11/2010 9:52:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**2.6**	**ug/L**	**2.0**	**EPA-7196**	**ND**		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**180**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	3
Total Chromium	**24**	**ug/L**	**10**	**EPA-6010B**	**ND**		4
Total Recoverable Manganese	**1000**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/12/10	11/12/10 08:02	TDC	KONE-1	1	BTK1144
2	EPA-6010B	11/12/10	11/15/10 08:44	ARD	PE-OP1	1	BTK1076
3	EPA-200.8	11/12/10	11/29/10 13:24	PPS	PE-EL1	5	BTK1785
4	EPA-6010B	11/17/10	11/18/10 00:05	JRG	PE-OP1	1	BTK1345
5	EPA-200.8	11/22/10	11/29/10 11:29	PPS	PE-EL1	5	BTK1685

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015888-04 | **Client Sample Name:** 0843, MW-1BR, 11/11/2010 9:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**230**	**ug/L**	**2.5**	**EPA-8260**	**ND**	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**75**	**ug/L**	**50**	**Luft-GC/MS**	**ND**	**A90**	1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	96.8	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	104	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	94.6	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.0	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/18/10	11/19/10 01:01	KEA	MS-V12	1	BTK1308
2	EPA-8260	11/18/10	11/19/10 14:49	KEA	MS-V12	5	BTK1308

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (General Chemistry)

BCL Sample ID: 1015888-04 | **Client Sample Name:** 0843, MW-1BR, 11/11/2010 9:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		1
Sulfate	28	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	540	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	250	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	1.9	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	7.0	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	227.8	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/10	11/12/10 04:27	TMS	IC1	1	BTK1030
2	EPA-120.1	11/12/10	11/12/10 18:45	RML	MET-1	1	BTK1085
3	SM-3500-FeD	11/14/10	11/14/10 19:00	MRM	SPEC05	1	BTK1071
4	EPA-415.1	11/29/10	11/30/10 09:21	TMS	TOC2	1	BTK2107
5	SM-4500OG	11/12/10	11/12/10 07:20	HPR	YSI-57	1	BTK1018
6	ASTM-D1498	11/12/10	11/12/10 11:47	RML	MET-1	1	BTK1086

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (Metals)

BCL Sample ID: 1015888-04 | **Client Sample Name:** 0843, MW-1BR, 11/11/2010 9:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**130**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	3
Total Chromium	**12**	**ug/L**	**10**	**EPA-6010B**	**ND**		4
Total Recoverable Manganese	**170**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/12/10	11/12/10 08:02	TDC	KONE-1	1	BTK1144
2	EPA-6010B	11/12/10	11/15/10 08:47	ARD	PE-OP1	1	BTK1076
3	EPA-200.8	11/12/10	11/29/10 13:27	PPS	PE-EL1	5	BTK1785
4	EPA-6010B	11/17/10	11/18/10 00:08	JRG	PE-OP1	1	BTK1345
5	EPA-200.8	11/22/10	11/29/10 11:32	PPS	PE-EL1	5	BTK1685

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Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015888-05 | **Client Sample Name:** 0843, MW-8, 11/11/2010 11:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	50	EPA-8260	ND	A01,Z1	1
1,2-Dibromoethane	ND	ug/L	50	EPA-8260	ND	A01,Z1	1
1,2-Dichloroethane	ND	ug/L	50	EPA-8260	ND	A01,Z1	1
Ethylbenzene	ND	ug/L	50	EPA-8260	ND	A01,Z1	1
Methyl t-butyl ether	**4900**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01,Z1**	1
Toluene	ND	ug/L	50	EPA-8260	ND	A01,Z1	1
Total Xylenes	ND	ug/L	100	EPA-8260	ND	A01,Z1	1
t-Amyl Methyl ether	ND	ug/L	50	EPA-8260	ND	A01,Z1	1
t-Butyl alcohol	ND	ug/L	1000	EPA-8260	ND	A01,Z1	1
Diisopropyl ether	ND	ug/L	50	EPA-8260	ND	A01,Z1	1
Ethanol	ND	ug/L	25000	EPA-8260	ND	A01,Z1	1
Ethyl t-butyl ether	ND	ug/L	50	EPA-8260	ND	A01,Z1	1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	5000	Luft-GC/MS	ND	A01,Z1	1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	105	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	96.0	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/18/10	11/19/10 14:31	KEA	MS-V12	100	BTK1308
2	EPA-8260	11/18/10	11/19/10 00:42	KEA	MS-V12	1	BTK1308

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (General Chemistry)

BCL Sample ID: 1015888-05 | **Client Sample Name:** 0843, MW-8, 11/11/2010 11:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	5.2	mg/L	0.44	EPA-300.0	ND		1
Sulfate	83	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	724	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	430	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	3.7	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	7.7	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	229.2	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/10	11/12/10 04:40	TMS	IC1	1	BTK1030
2	EPA-120.1	11/12/10	11/12/10 18:51	RML	MET-1	1	BTK1085
3	SM-3500-FeD	11/14/10	11/14/10 19:00	MRM	SPEC05	1	BTK1071
4	EPA-415.1	11/29/10	11/30/10 10:01	TMS	TOC2	1	BTK2107
5	SM-4500OG	11/12/10	11/12/10 07:20	HPR	YSI-57	1	BTK1018
6	ASTM-D1498	11/12/10	11/12/10 11:51	RML	MET-1	1	BTK1086

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Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (Metals)

BCL Sample ID: 1015888-05 | **Client Sample Name:** 0843, MW-8, 11/11/2010 11:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**810**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	3
Total Chromium	**46**	**ug/L**	**10**	**EPA-6010B**	**ND**		4
Total Recoverable Manganese	**1000**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/12/10	11/12/10 08:15	TDC	KONE-1	1	BTK1144
2	EPA-6010B	11/12/10	11/15/10 08:55	ARD	PE-OP1	1	BTK1076
3	EPA-200.8	11/12/10	11/29/10 13:39	PPS	PE-EL1	5	BTK1785
4	EPA-6010B	11/17/10	11/18/10 00:11	JRG	PE-OP1	1	BTK1345
5	EPA-200.8	11/22/10	11/29/10 11:35	PPS	PE-EL1	5	BTK1685

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Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015888-06 | **Client Sample Name:** 0843, MW-11, 11/11/2010 10:42:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
Ethylbenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Methyl t-butyl ether	**6100**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01**	2
Toluene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Xylenes	ND	ug/L	10	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	ug/L	100	EPA-8260	ND	A01	1
Diisopropyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
Ethanol	ND	ug/L	2500	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**1600**	**ug/L**	**500**	**Luft-GC/MS**	**ND**	**A01,A90**	1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	107	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	104	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	94.7	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.4	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/18/10	11/19/10 16:02	KEA	MS-V12	10	BTK1308
2	EPA-8260	11/18/10	11/18/10 21:01	KEA	MS-V12	100	BTK1308

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (General Chemistry)

BCL Sample ID: 1015888-06 | **Client Sample Name:** 0843, MW-11, 11/11/2010 10:42:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	2.7	mg/L	0.44	EPA-300.0	ND		1
Sulfate	23	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	718	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	990	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	2.8	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	6.6	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	145.0	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/10	11/12/10 04:54	TMS	IC1	1	BTK1030
2	EPA-120.1	11/12/10	11/12/10 18:57	RML	MET-1	1	BTK1085
3	SM-3500-FeD	11/14/10	11/14/10 19:00	MRM	SPEC05	1	BTK1071
4	EPA-415.1	11/29/10	11/30/10 10:15	TMS	TOC2	1	BTK2107
5	SM-4500OG	11/12/10	11/12/10 07:20	HPR	YSI-57	1	BTK1018
6	ASTM-D1498	11/12/10	11/12/10 11:55	RML	MET-1	1	BTK1086

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (Metals)

BCL Sample ID: 1015888-06 | **Client Sample Name:** 0843, MW-11, 11/11/2010 10:42:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**610**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	3
Total Chromium	**17**	**ug/L**	**10**	**EPA-6010B**	**ND**		4
Total Recoverable Manganese	**830**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/12/10	11/12/10 08:06	TDC	KONE-1	1	BTK1144
2	EPA-6010B	11/12/10	11/15/10 09:17	ARD	PE-OP1	1	BTK1076
3	EPA-200.8	11/12/10	11/29/10 13:42	PPS	PE-EL1	5	BTK1785
4	EPA-6010B	11/17/10	11/18/10 00:14	JRG	PE-OP1	1	BTK1345
5	EPA-200.8	11/22/10	11/29/10 11:38	PPS	PE-EL1	5	BTK1685

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1015888-07 | **Client Sample Name:** 0843, MW-7, 11/11/2010 11:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
Ethylbenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Methyl t-butyl ether	**13000**	**ug/L**	**100**	**EPA-8260**	**ND**	**A01**	2
Toluene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Xylenes	ND	ug/L	10	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
t-Butyl alcohol	**1200**	**ug/L**	**100**	**EPA-8260**	**ND**	**A01**	1
Diisopropyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
Ethanol	ND	ug/L	2500	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**2600**	**ug/L**	**500**	**Luft-GC/MS**	**ND**	**A01,A90**	1
1,2-Dichloroethane-d4 (Surrogate)	96.5	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	107	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	96.8	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.1	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	11/18/10	11/19/10 15:43	KEA	MS-V12	10	BTK1308
2	EPA-8260	11/18/10	11/18/10 20:43	KEA	MS-V12	200	BTK1308

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (General Chemistry)

BCL Sample ID: 1015888-07 | **Client Sample Name:** 0843, MW-7, 11/11/2010 11:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	2.3	mg/L	0.44	EPA-300.0	ND		1
Sulfate	67	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	740	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	2000	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	4.1	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	6.3	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	54.88	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/12/10	11/12/10 05:07	TMS	IC1	1	BTK1030
2	EPA-120.1	11/12/10	11/12/10 19:03	RML	MET-1	1	BTK1085
3	SM-3500-FeD	11/14/10	11/14/10 19:00	MRM	SPEC05	1	BTK1071
4	EPA-415.1	11/29/10	11/30/10 10:28	TMS	TOC2	1	BTK2107
5	SM-4500OG	11/12/10	11/12/10 07:20	HPR	YSI-57	1	BTK1018
6	ASTM-D1498	11/12/10	11/12/10 12:01	RML	MET-1	1	BTK1086

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Water Analysis (Metals)

BCL Sample ID: 1015888-07 | **Client Sample Name:** 0843, MW-7, 11/11/2010 11:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**1000**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	3
Total Chromium	**27**	**ug/L**	**10**	**EPA-6010B**	**ND**		4
Total Recoverable Manganese	**1000**	**ug/L**	**5.0**	**EPA-200.8**	**ND**	**A01**	5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/12/10	11/12/10 08:06	TDC	KONE-1	1	BTK1144
2	EPA-6010B	11/12/10	11/15/10 09:34	ARD	PE-OP1	1	BTK1076
3	EPA-200.8	11/12/10	11/29/10 13:05	PPS	PE-EL1	5	BTK1785
4	EPA-6010B	11/17/10	11/18/10 00:16	JRG	PE-OP1	1	BTK1345
5	EPA-200.8	11/22/10	11/29/10 11:41	PPS	PE-EL1	5	BTK1685

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTK1308						
Benzene	BTK1308-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BTK1308-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BTK1308-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTK1308-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTK1308-BLK1	ND	ug/L	0.50		
Toluene	BTK1308-BLK1	ND	ug/L	0.50		
Total Xylenes	BTK1308-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BTK1308-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BTK1308-BLK1	ND	ug/L	10		
Diisopropyl ether	BTK1308-BLK1	ND	ug/L	0.50		
Ethanol	BTK1308-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BTK1308-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BTK1308-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BTK1308-BLK1	100	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTK1308-BLK1	104	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTK1308-BLK1	93.9	%	86 - 115 (LCL - UCL)		

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Reported: 12/01/2010 16:59
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTK1308										
Benzene	BTK1308-BS1	LCS	22.240	25.000	ug/L	89.0		70 - 130		
Toluene	BTK1308-BS1	LCS	22.910	25.000	ug/L	91.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTK1308-BS1	LCS	9.7600	10.000	ug/L	97.6		76 - 114		
Toluene-d8 (Surrogate)	BTK1308-BS1	LCS	10.540	10.000	ug/L	105		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTK1308-BS1	LCS	9.8800	10.000	ug/L	98.8		86 - 115		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTK1308	Used client sample: N										
Benzene	MS	1016068-03	ND	28.590	25.000	ug/L		114		70 - 130	
	MSD	1016068-03	ND	28.050	25.000	ug/L	1.9	112	20	70 - 130	
Toluene	MS	1016068-03	ND	30.320	25.000	ug/L		121		70 - 130	
	MSD	1016068-03	ND	29.680	25.000	ug/L	2.1	119	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1016068-03	ND	9.5500	10.000	ug/L		95.5		76 - 114	
	MSD	1016068-03	ND	9.6600	10.000	ug/L	1.1	96.6		76 - 114	
Toluene-d8 (Surrogate)	MS	1016068-03	ND	10.600	10.000	ug/L		106		88 - 110	
	MSD	1016068-03	ND	10.580	10.000	ug/L	0.2	106		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1016068-03	ND	9.8800	10.000	ug/L		98.8		86 - 115	
	MSD	1016068-03	ND	10.030	10.000	ug/L	1.5	100		86 - 115	

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Reported: 12/01/2010 16:59
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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTK1030						
Nitrate as NO3	BTK1030-BLK1	ND	mg/L	0.44		
Sulfate	BTK1030-BLK1	ND	mg/L	1.0		
QC Batch ID: BTK1071						
Iron (II) Species	BTK1071-BLK1	ND	ug/L	100		
QC Batch ID: BTK2107						
Non-Volatile Organic Carbon	BTK2107-BLK1	ND	mg/L	0.30		

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Reported: 12/01/2010 16:59
Project: 0843
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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTK1030										
Nitrate as NO3	BTK1030-BS1	LCS	21.643	22.134	mg/L	97.8		90 - 110		
Sulfate	BTK1030-BS1	LCS	101.69	100.00	mg/L	102		90 - 110		
QC Batch ID: BTK1071										
Iron (II) Species	BTK1071-BS1	LCS	1923.1	2000.0	ug/L	96.2		90 - 110		
QC Batch ID: BTK1085										
Electrical Conductivity @ 25 C	BTK1085-BS1	LCS	310.20	303.00	umhos/cm	102		90 - 110		
QC Batch ID: BTK2107										
Non-Volatile Organic Carbon	BTK2107-BS1	LCS	5.4800	5.0000	mg/L	110		85 - 115		

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTK1018	Used client sample: Y - Description: MW-10, 11/11/2010 10:00										
Dissolved Oxygen	DUP	1015888-01	7.6000	7.6000		mg O/L	0		10		
QC Batch ID: BTK1030	Used client sample: N										
Nitrate as NO3	DUP	1015873-01	3.6167	4.0727		mg/L	11.9		10		Q01
	MS	1015873-01	3.6167	26.462	22.358	mg/L		102		80 - 120	
	MSD	1015873-01	3.6167	26.610	22.358	mg/L	0.6	103	10	80 - 120	
Sulfate	DUP	1015873-01	126.08	126.20		mg/L	0.1		10		
	MS	1015873-01	126.08	234.59	101.01	mg/L		107		80 - 120	
	MSD	1015873-01	126.08	235.65	101.01	mg/L	0.5	108	10	80 - 120	
QC Batch ID: BTK1071	Used client sample: Y - Description: MW-9R, 11/11/2010 10:55										
Iron (II) Species	DUP	1015883-06	212360	211460		ug/L	0.4		10		
QC Batch ID: BTK1085	Used client sample: Y - Description: MW-10, 11/11/2010 10:00										
Electrical Conductivity @ 25 C	DUP	1015888-01	529.10	530.20		umhos/cm	0.2		10		
QC Batch ID: BTK1086	Used client sample: Y - Description: MW-9R, 11/11/2010 10:55										
Oxidation Reduction Potential (Eobs_Ag/	DUP	1015883-06	-86.690	-89.340		mV	3.0		10		
QC Batch ID: BTK2107	Used client sample: Y - Description: MW-10, 11/11/2010 10:00										
Non-Volatile Organic Carbon	DUP	1015888-01	1.8140	1.7880		mg/L	1.4		10		
	MS	1015888-01	1.8140	6.9367	5.0251	mg/L		102		80 - 120	
	MSD	1015888-01	1.8140	6.9578	5.0251	mg/L	0.3	102	10	80 - 120	

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Reported: 12/01/2010 16:59
Project: 0843
Project Number: 4512968186
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Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTK1076						
Dissolved Chromium	BTK1076-BLK1	ND	ug/L	10		
QC Batch ID: BTK1144						
Hexavalent Chromium	BTK1144-BLK1	ND	ug/L	2.0		
QC Batch ID: BTK1345						
Total Chromium	BTK1345-BLK1	ND	ug/L	10		
QC Batch ID: BTK1685						
Total Recoverable Manganese	BTK1685-BLK1	ND	ug/L	1.0		
QC Batch ID: BTK1785						
Dissolved Manganese	BTK1785-BLK1	ND	ug/L	1.0		

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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTK1076										
Dissolved Chromium	BTK1076-BS1	LCS	199.96	200.00	ug/L	100		85 - 115		
QC Batch ID: BTK1144										
Hexavalent Chromium	BTK1144-BS1	LCS	47.267	50.000	ug/L	94.5		85 - 115		
QC Batch ID: BTK1345										
Total Chromium	BTK1345-BS1	LCS	203.84	200.00	ug/L	102		85 - 115		
QC Batch ID: BTK1685										
Total Recoverable Manganese	BTK1685-BS1	LCS	97.999	100.00	ug/L	98.0		85 - 115		
QC Batch ID: BTK1785										
Dissolved Manganese	BTK1785-BS1	LCS	98.844	100.00	ug/L	98.8		85 - 115		

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Reported: 12/01/2010 16:59
Project: 0843
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Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTK1076	Used client sample: Y - Description: MW-10, 11/11/2010 10:00										
Dissolved Chromium	DUP	1015888-01	11.266	11.220		ug/L	0.4		20		
	MS	1015888-01	11.266	211.71	204.08	ug/L		98.2		75 - 125	
	MSD	1015888-01	11.266	223.18	204.08	ug/L	5.3	104	20	75 - 125	
QC Batch ID: BTK1144	Used client sample: Y - Description: MW-10, 11/11/2010 10:00										
Hexavalent Chromium	DUP	1015888-01	10.079	10.261		ug/L	1.8		10		
	MS	1015888-01	10.079	61.021	52.632	ug/L		96.8		85 - 115	
	MSD	1015888-01	10.079	60.929	52.632	ug/L	0.2	96.6	10	85 - 115	
QC Batch ID: BTK1345	Used client sample: N										
Total Chromium	DUP	1015604-01	1.9827	ND		ug/L			20		A02
	MS	1015604-01	1.9827	209.95	200.00	ug/L		104		75 - 125	
	MSD	1015604-01	1.9827	197.38	200.00	ug/L	6.2	97.7	20	75 - 125	
QC Batch ID: BTK1685	Used client sample: Y - Description: MW-10, 11/11/2010 10:00										
Total Recoverable Manganese	DUP	015888-01RE'	164.50	157.14		ug/L	4.6		20		
	MS	015888-01RE'	164.50	247.57	100.00	ug/L		83.1		70 - 130	
	MSD	015888-01RE'	164.50	241.06	100.00	ug/L	2.7	76.6	20	70 - 130	
QC Batch ID: BTK1785	Used client sample: Y - Description: MW-7, 11/11/2010 11:20										
Dissolved Manganese	DUP	1015888-07	1002.4	990.50		ug/L	1.2		20		
	MS	1015888-07	1002.4	1498.6	510.20	ug/L		97.3		70 - 130	
	MSD	1015888-07	1002.4	1491.1	510.20	ug/L	0.5	95.8	20	70 - 130	

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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.
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.
Q01	Sample precision is not within the control limits.
S05	The sample holding time was exceeded.
Z1	When run at a higher dilution, MTBE returns a result out of quantitative range & all other reportable compounds are non-existent.

STATEMENTS

Purge Water Disposal

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

Limitations

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

APPENDIX E

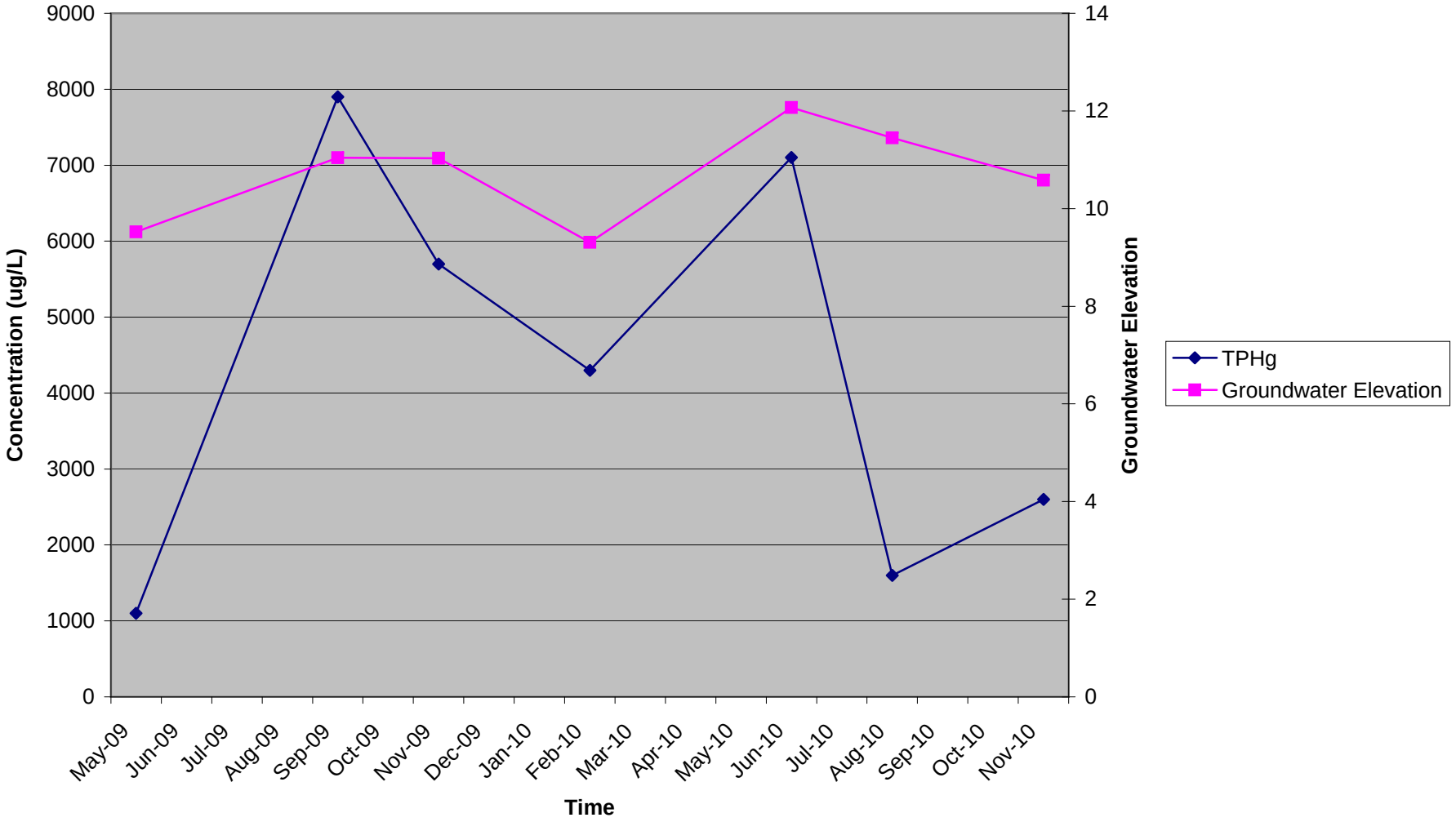
Concentration versus Time Graphs

MW-7

Groundwater Elevation and TPHg Concentration versus Time Graph

Former 76 Service Station No. 0843 (2349)

1629 Webster St, Alameda, CA

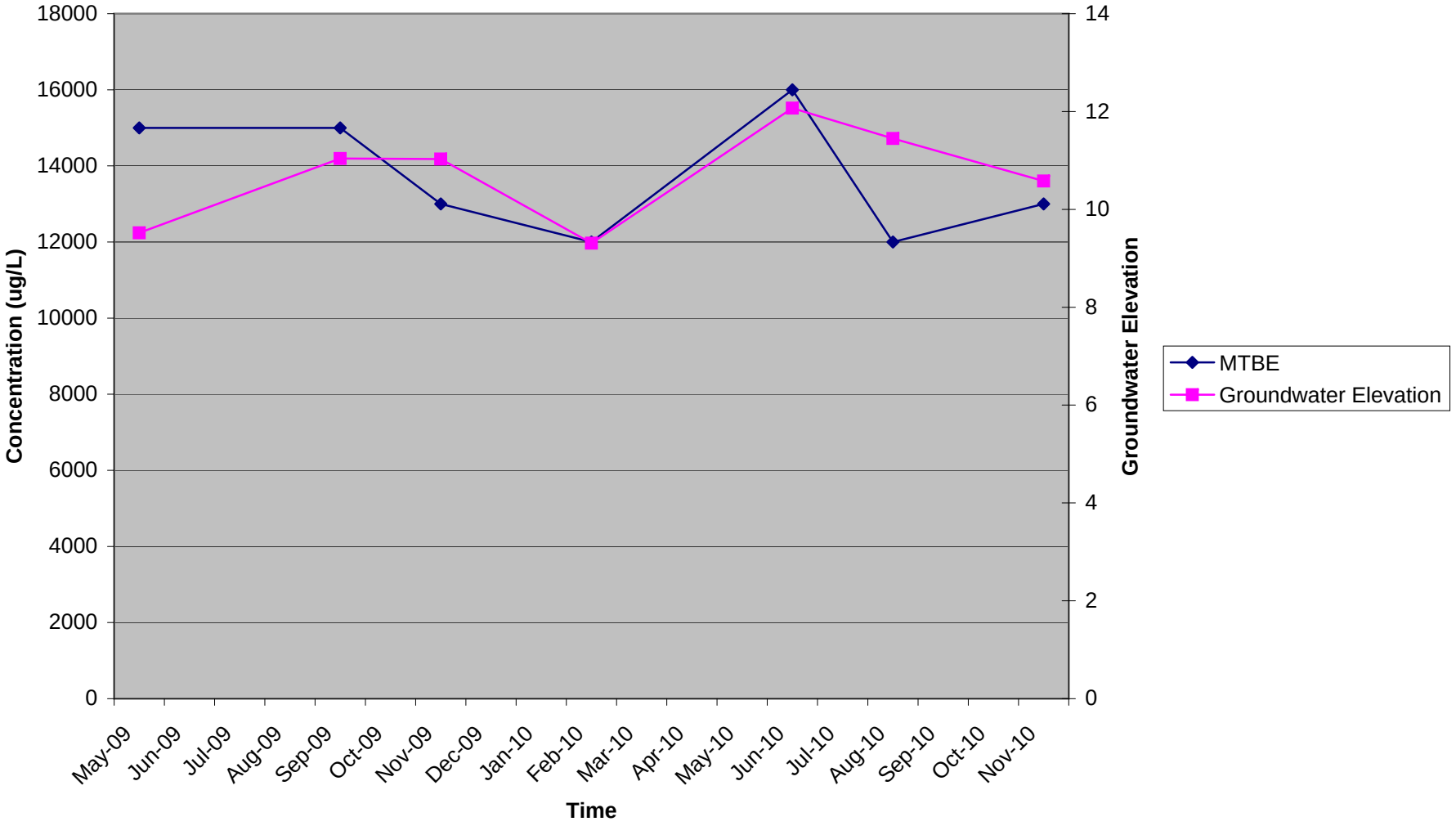


MW-7

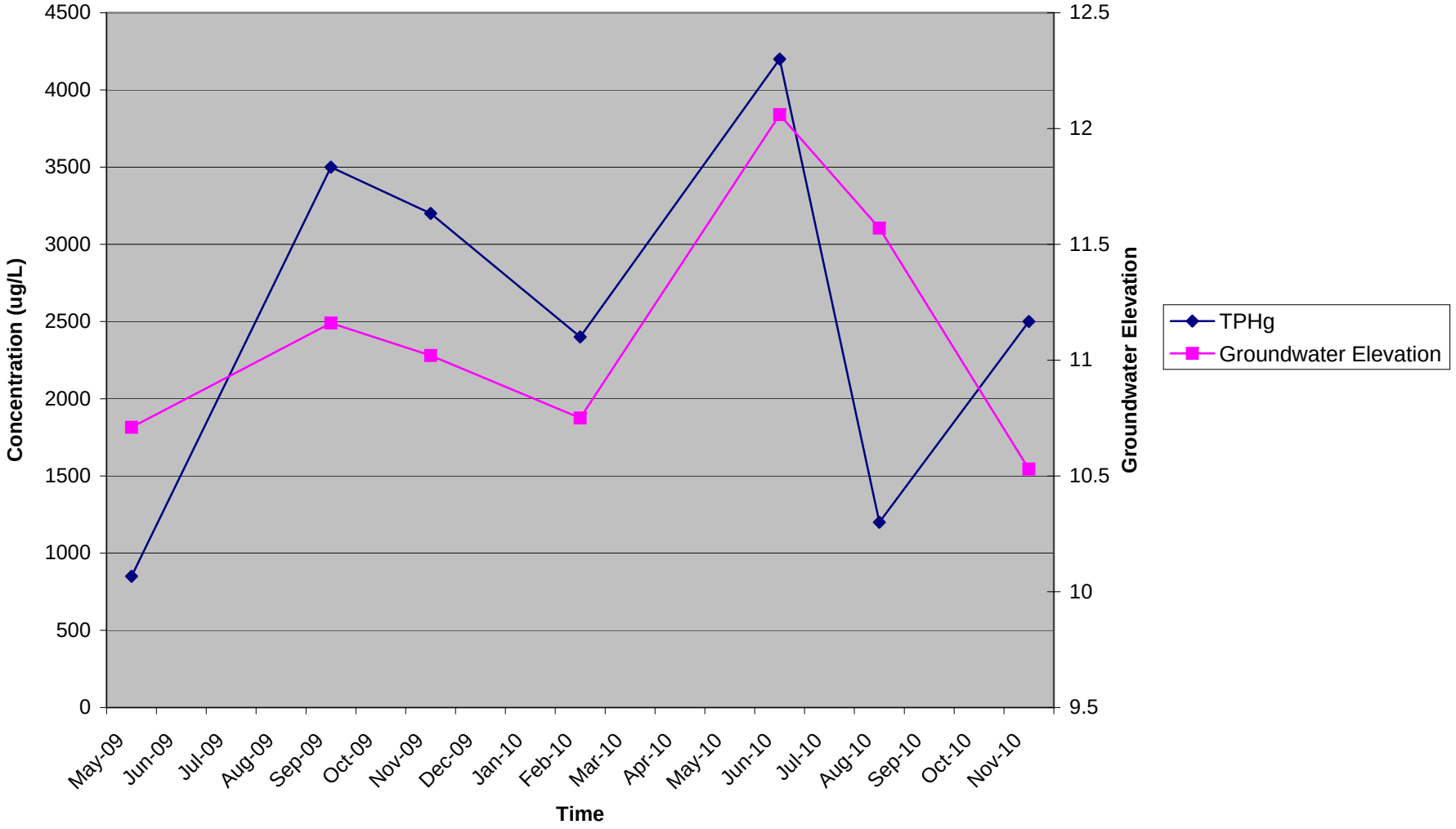
Groundwater Elevation and MTBE Concentration versus Time Graph

Former 76 Service Station No. 0843 (2349)

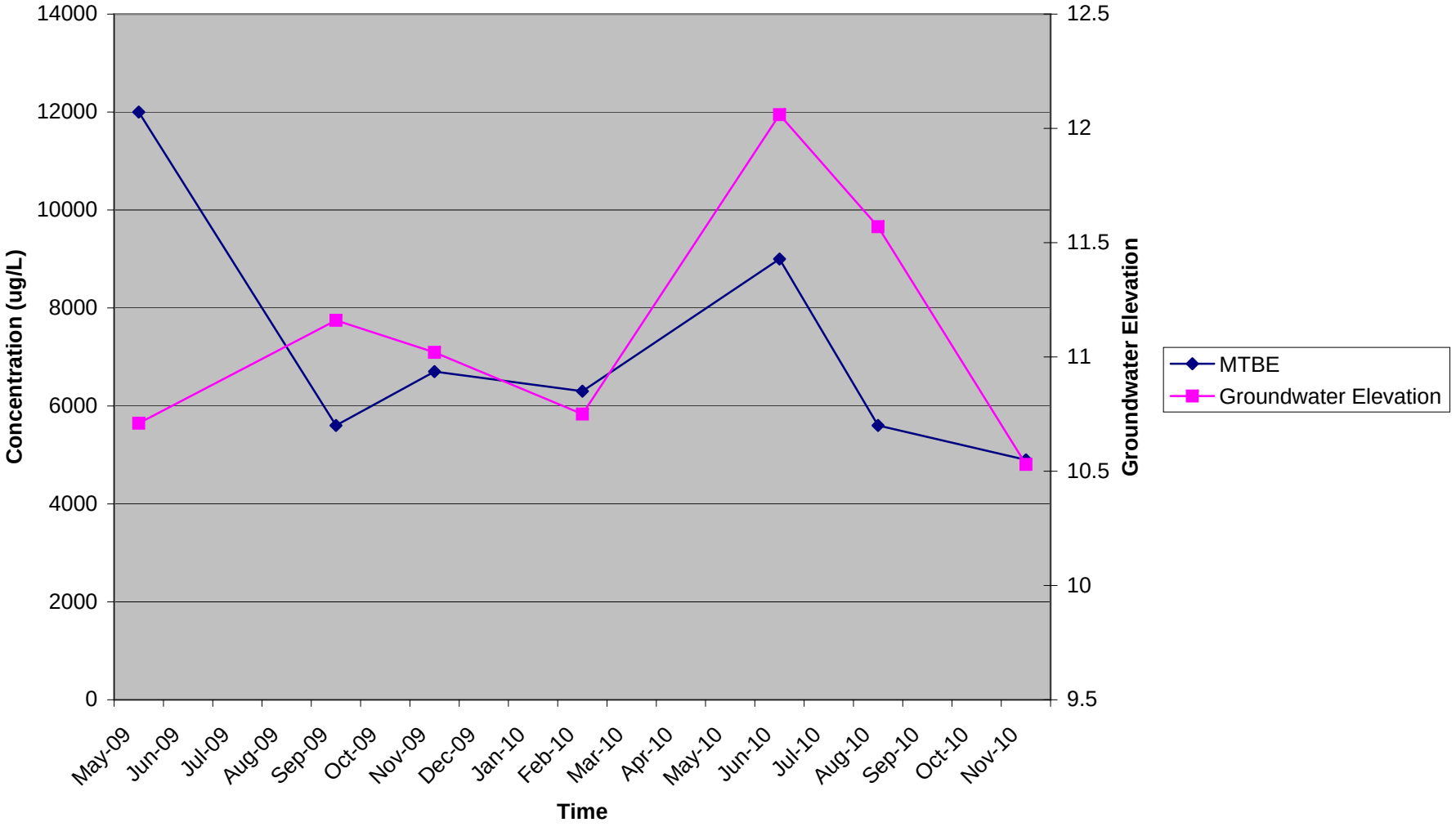
1629 Webster St, Alameda, CA



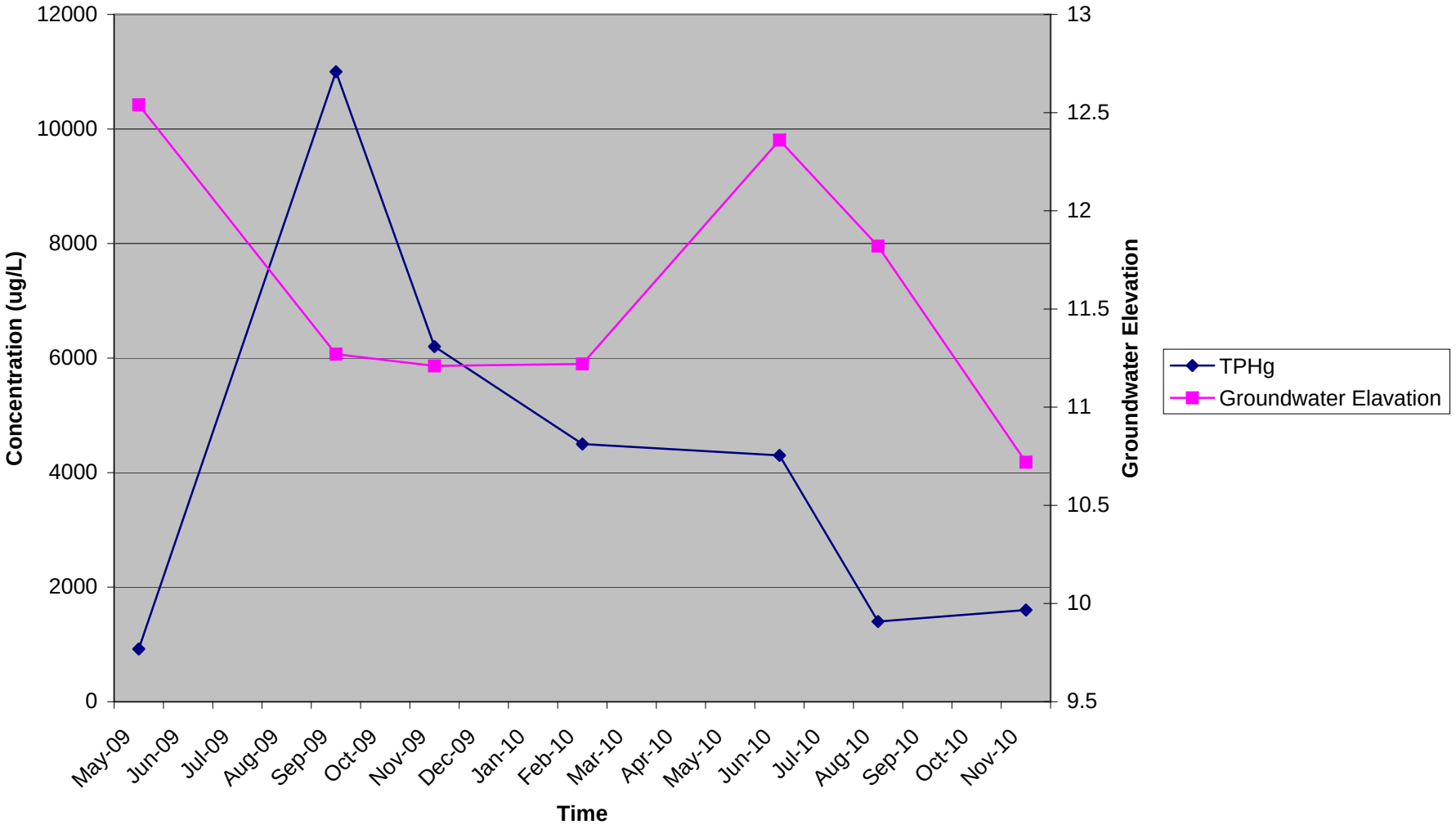
MW-8
Groundwater Elevation and TPHg Concentration versus Time Graph
Former 76 Service Station No. 0843 (2349)
1629 Webster St, Alameda, CA



MW-8
Groundwater Elevation and MTBE Concentration versus Time Graph
Former 76 Service Station No. 0843 (2349)
1629 Webster St, Alameda, CA



MW-11
Groundwater Elevation and TPHg Concentration versus Time Graph
Former 76 Service Station No. 0843 (2349)
1629 Webster St, Alameda, CA



MW-11
Groundwater Elevation and MTBE Concentration versus Time Graph
Former 76 Service Station No. 0843 (2349)
1629 Webster St, Alameda, CA