PHASE IV SOIL AND GROUNDWATER INVESTIGATION

MAY 2010

751 - 785 Seventh Street
Oakland, California

Alameda County Case No. RO0002586

For:

Brush Street Group, LLC
Oakland, California

Y0323-03.01478.fnl.doc

5900 Hollis Street, Suite D • Emeryville, CA 94608 • (510) 420-8686

28 May 2010

Mr. Jerry Wickham
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Transmittal of Report on Phase IV Soil and Groundwater Investigation, 751 - 785 Seventh Street, Oakland, California

Dear Mr. Wickham:

Please find attached the above-referenced report for the 751 - 785 Seventh Street site in Oakland prepared by BASELINE Environmental Consulting. 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.

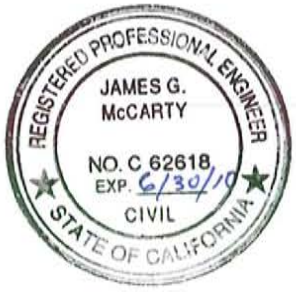
Sincerely,

Tom McCoy
Brush Street Group, LLC

PROFESSIONAL CERTIFICATION

This report was prepared by myself or by other professionals directly under my supervision.

James McCarty
P. E. No. C 62618



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PHASE IV SOIL AND GROUNDWATER INVESTIGATION

751 - 785 Seventh Street
Oakland, California

This report describes the activities and results of an additional soil and groundwater investigation performed by BASELINE Environmental Consulting ("BASELINE") on the behalf of the Brush Street Group, LLC for the properties at 751 - 785 Seventh Street in Oakland, California ("site") (Figure 1). BASELINE installed two shallow groundwater monitoring wells and one deep groundwater monitoring well on the subject property, and one shallow and one deep groundwater monitoring well off-site in the downgradient direction. BASELINE collected soil samples during the installation of the wells, which were analyzed for Title 22 metals and hexavalent chromium. Once the wells were installed, BASELINE collected groundwater samples from the new wells, two existing wells on-site, and two off-site wells that are part of a groundwater monitoring network for the adjacent Shell Service Station. The groundwater samples were analyzed for volatile organic compounds, Title 22 metals, and hexavalent chromium.

FINDINGS

- The shallow aquifer is confined by a layer of clay (Old Bay Mud) that is present at the site at approximately 57 feet below ground surface.

- The soil samples collected on-site contained total chromium and hexavalent chromium at concentrations exceeding environmental screening levels for residential or commercial land use where groundwater is not a potential drinking water source.

- The groundwater samples collected both on-site and off-site contained dissolved total chromium, hexavalent chromium ("Cr-VI"), cobalt, copper, and nickel at concentrations exceeding environmental screening levels for sites where groundwater is not a potential drinking water source.

- The groundwater samples collected on-site also contained thallium and vanadium at concentrations exceeding environmental screening levels for sites where groundwater is not a potential drinking water source.

- None of the groundwater samples collected contained volatile organic compounds ("VOCs") at concentrations exceeding the environmental screening levels for sites where groundwater is not a potential drinking water source.

- VOC concentrations in off-site wells are all below environmental screening levels where groundwater is not a potential drinking water source.

- Nickel, copper, and cobalt are present in off-site wells at concentrations above environmental screening levels where groundwater is not a potential drinking water source.

CONCLUSIONS

Past use of the site as a plating facility has resulted in metals impact to the soil and groundwater at the site. The chemical of primary concern for the groundwater is Cr-VI, which was reported in shallow soil samples nearest to the former Frog Pond and all of the groundwater samples collected on-site. The analytical results of the soil and groundwater samples collected during this investigation indicated that the elevated concentrations of metals in the soil and groundwater, primarily Cr-VI, originated from the area of a subsurface concrete column associated with the former Frog Pond. The groundwater impact is confined to the Merritt Sand since the Old Bay Mud, present at approximately 60 feet below ground surface, acts as a barrier to further vertical migration.

While dissolved cobalt, copper, nickel, thallium, and vanadium were also reported in groundwater samples collected on-site at concentrations exceeding environmental screening levels, the impact is limited since detection of these metals has only been reported in a few soil samples collected on-site. While some VOCs have been detected in shallow soil samples collected at the site, no VOCs were reported at concentrations exceeding the environmental screening levels in the groundwater samples collected.

Dissolved hexavalent chromium in the groundwater has migrated as far as 120 feet from the Frog Pond in the southwesterly direction. The results also indicate that the Cr-VI has migrated off-site and the plume appears to be undergoing vertical dispersion as indicated by the increase in the Cr-VI concentration in the deeper off-site well, screened in the Merritt Sands, relative to the deeper on-site well, also screened in the Merritt Sands

PHASE IV SOIL AND GROUNDWATER INVESTIGATION

751 - 785 Seventh Street
Oakland, California

1.0 INTRODUCTION

This report describes the activities and results of an additional soil and groundwater investigation performed by BASELINE Environmental Consulting ("BASELINE") on the behalf of the Brush Street Group, LLC for the properties at 751 - 785 Seventh Street in Oakland, California ("site") (Figure 1). This investigation is the fourth ("Phase IV") in a series of investigations that BASELINE has conducted at the site. The site is currently under the regulatory oversight of the Alameda County Environmental Health Services ("ACEH") (Alameda County SLIC Case No. RO0002586). The investigation was performed in accordance with BASELINE's *Work Plan for Additional Soil and Groundwater Investigation*, dated 19 June 2009 and *Addendum I to Work Plan for Additional Soil and Groundwater Investigation*, dated 6 October 2009. The investigation was also performed in accordance with ACEH's letter to Tom McCoy of the Brush Street Group, LLC, dated 10 December 2009.

2.0 BACKGROUND

A plating facility was operated at the site between 1957 and 1998, at which time the site was abandoned. The abandoned plating facility contained hazardous materials and wastes, which were removed during an emergency response action directed by U.S. Environmental Protection Agency ("EPA"), Office of Emergency Response in 1998/1999. Subsequent soil and groundwater investigations have found that the soil and groundwater at the site have been impacted by metals, in particular hexavalent chromium ("Cr-VI"), and volatile organic compounds ("VOCs"), in particular, trichloroethene ("TCE").

The primary source of metals and VOCs appears to have been a below-grade concrete structure referred to as the Frog Pond (Figure 2). The Frog Pond is described in further detail in Section 4. Between June and December 2007, the Frog Pond was removed and backfilled with gravel. The Frog Pond was subsequently covered with a concrete cap.

2.1 Previous Investigations

Environmental investigation of the site began in February 2003 and has occurred in several phases as summarized below. The list of samples collected and analyses performed during the Phase IV investigation is presented in Table 1. Tables 2 through 15 contain the groundwater level data and analytical results for soil and groundwater samples collected to date.

2.1.1 Phase I

BASELINE performed a preliminary soil and groundwater investigation in 2003 (BASELINE, 2003). A total of seven soil borings, B-FP01 through B-FP07, were installed to depths ranging

from 16 to 25 feet below ground surface ("bgs"), and two shallow monitoring wells, MW-FP1 and MW-FP2, were installed (Figure 2).

Soil samples were collected in the fill and just beneath the fill/native material interface at approximately two feet and five feet bgs. Soil samples were analyzed for Title 22 metals, total petroleum hydrocarbons ("TPH") as gasoline and diesel, VOCs, polynuclear aromatic hydrocarbons ("PAHs"), polychlorinated biphenyls ("PCBs"), pH, Cr-VI, and cyanide. Select soil samples were also analyzed for soluble lead and/or nickel using the waste extraction test using deionized water ("DI WET") or toxicity characteristic leaching procedure ("TCLP").

Groundwater samples were collected from the two groundwater monitoring wells. Grab groundwater samples were collected from two boreholes, B-FP04 and B-FP05, to assess groundwater quality directly beneath the property. These groundwater samples were analyzed for TPH, VOCs, PAHs, PCBs, and cyanide. A grab groundwater sample was also collected from boring B-FP03 and analyzed for TPH to assess the potential presence of petroleum hydrocarbons, which might have migrated from the adjacent Shell Service Station site.

Elevated levels of lead, nickel, and zinc were reported in shallow soils samples (Table 4). Several of the soil samples contained soluble nickel at levels that exceeded California hazardous waste criteria (Table 5). One sample, B-FP07 collected at 2.5 feet bgs was reported to contain elevated levels of PAHs and cyanide. However, the soil sample collected from 5.0 feet bgs at this location did not contain elevated levels of these contaminants. Elevated levels of nickel were also reported in two of the grab groundwater samples and one of the groundwater monitoring well samples. TPH as diesel was reported in the groundwater sample from MW-FP1 and TPH as gasoline was reported in the grab groundwater sample B-FP03 (Table 15).

2.1.2 Phase II

BASELINE performed a Phase II investigation in November 2005 (BASELINE, 2006). The investigation consisted of installation of soil borings in: 1) source areas (borings B-FP08 through B-FP17), 2) areas to define the extent of the PAH-impacted area (borings B-FP07A through B-FP07C), and 3) areas with exposed soil (samples SS-FP01 through SS-FP10). In addition, grab groundwater samples were collected from select soil borings and the two on-site groundwater monitoring wells (Figure 2).

Soil samples were analyzed for one or all of the following: Title 22 metals, VOCs, PAHs, and Cr-VI. Select soil samples were also analyzed for soluble cadmium, copper, lead, and/or nickel using DI WET or toxicity characteristic leaching procedure ("TCLP"). Groundwater samples from the two groundwater monitoring wells were analyzed for TPH as gasoline, TPH as diesel, VOCs, and PAHs. Grab groundwater samples from the soil borings were analyzed for at least one of the following: Title 22 metals, Cr-VI, TPH as gasoline, TPH as diesel, VOCs, PAHs, and pH.

Elevated levels of total chromium, Cr-VI, copper, lead, nickel, and zinc were reported in shallow soil samples (Table 4). Elevated levels of cis-1,2-dichloroethene and TCE were reported in one grab groundwater sample (B-FP14) (Table 10).

2.1.3 Phase III Investigation

The Focused Phase III investigation was proposed after sample results from the Phase II investigation identified chlorinated VOCs adjacent to the Frog Pond, located in the southwestern portion of the site (Figure 2) (BASELINE, 2006). The focused Phase III investigation was proposed to clarify the presence of chlorinated VOCs in the area. The investigation consisted of collecting soil and grab groundwater samples from six soil borings (B-FP18 through B-FP23) (Figure 2).

Two soil samples were collected from each boring, from five or six feet bgs and from 12 feet bgs. Soil samples were analyzed for VOCs. In addition, the soil sample from B-FP25 collected at 6.0 feet bgs was also analyzed for Cr-VI. About six inches of standing water was observed above the presumed bottom of the Frog Pond in boring B-FP23. This water had a greenish-yellow tint. The grab groundwater sample collected from B-FP23 also had a greenish-yellow tint, more strongly colored than the water in the Frog Pond. The grab groundwater sample from B-FP23 was analyzed for Title 22 metals, Cr-VI, VOCs, and pH.

Elevated levels of chromium and Cr-VI were reported in the soil sample collected from B-FP23, adjacent to and south of the Frog Pond (Figure 2, Table 4). Elevated levels of cis-1,2-dichloroethene and TCE were reported in several grab groundwater samples (Table 10). Elevated levels of antimony, total chromium, Cr-VI, cobalt, copper, lead, mercury, nickel, silver, thallium, and/or vanadium were also reported in the grab groundwater samples from B-FP23 and FP-GRAB GW (Table 11).

2.1.4 Frog Pond Removal

Data from the Phase III investigation suggested that the Frog Pond was the likely source of contamination. Therefore, the Frog Pond was removed in an attempt to identify the source (BASELINE, 2008). BASELINE collected soil samples from eight locations underneath the Frog Pond between 31 May and 5 June 2007 (sample locations B-FP24 through B-FP31 on Figure 2) and submitted the samples for Title 22 metals and Cr-VI analyses (BASELINE, 2008). Sample locations B-FP24 through B-FP28 were chosen to characterize the soil underneath the Frog Pond. Samples were collected from sampling locations B-FP24 through B-FP28 from 4.5 feet below the surrounding grade, which was immediately below the concrete bottom of the Frog Pond. A second soil sample was collected at 9.5 feet below grade, or five feet below the bottom of the Frog Pond from B-FP24 through B-FP27.

Additional soil samples were collected below suspect features found in the Frog Pond, as follows:

- One soil sample (B-FP29) was collected from seven feet bgs, which is below the bottom of the Eastern Sump;
- One soil sample (B-FP30) was collected below the bottom of the sump that was attached to the separate concrete pad found about one foot below the bottom of the Frog Pond from seven feet below grade; and
- Two soil samples were collected adjacent to the concrete column (B-FP31) from 11.5 and 18.5 feet below grade.

BASELINE also collected a sample of the fine-grained sand immediately below the cobbles imbedded at the bottom of the concrete column for metals analysis, after the cobbles and sand were excavated. Elevated levels of total chromium, Cr-VI, copper, and nickel were reported in some of the soil samples collected (Table 4).

2.1.5 Soil Gas Survey – 601 Brush Street

On 24 September 2009, P&D Environmental performed a subsurface investigation for the property adjacent to and southwest of the site, 601 Brush Street. Part of the scope of work included installation of two borings (B6 and B7) and two soil gas probes (SG5 and SG6) on the southwestern portion of the 751-785 Seventh Street property (P&D Environmental, 2009). Grab groundwater samples were collected from the borings, which were reported to contain MTBE at 0.64 and 8.6 micrograms per liter ("µg/L"), 1,1-dichloroethene at 1.2 and 2.7 µg/L, and TCE at 7.1 and 15 µg/L. Grab groundwater samples collected on the 601 Brush Street property contained 1,1-dichloroethene and TCE at higher concentrations.

The soil gas samples collected on the 751-785 Seventh Street property contained TCE at 3,400 and 5,900 micrograms per cubic meter. Low concentrations of benzene, toluene, ethylbenzene, and xylenes were also reported in one of the samples. The soil gas concentrations reported in the samples collected at the 751-785 Seventh Street property were higher than those collected at 601 Brush Street. However, of the nine soil gas samples collected at 601 Brush Street, five contained the tracer compound 2-propanol used for leak detection in the sampling train, indicating that the five samples collected from the 601 Brush Street property were biased low and may not be reliable.

2.2 Phase IV Workplan

As discussed above, between June and December 2007, the Frog Pond was removed and the removal activities were documented in BASELINE's report, *Documentation of Frog Pond Removal Activities*, dated 29 February 2008. The report was submitted and reviewed by ACEH. In a letter to the Brush Street Group, LLC, dated 5 November 2008, ACEH requested that a workplan be prepared to address the following items:

- Evaluate whether the backfill effectively seals the sump and prevents vertical migration of water from the Frog Pond to groundwater;
- Assess contamination possibly associated with the "eastern sump" of the former Frog Pond;
- Assess vertical extent of groundwater contamination near the Frog Pond;
- Assess whether a plume of dissolved metals and VOCs extends a significant distance off-site;
- Define the extent of metals contamination in the area of the former drainage ditch that crossed the rear yard;
- Describe why the soils with elevated concentrations of metals are not considered a potential source of releases of metals to groundwater; and

- Evaluate the potential for vapor intrusion into indoor air by collecting soil gas samples at the site.

In addition, ACEH requested that the San Francisco Bay Regional Water Quality Control Board ("RWQCB") Environmental Screening Levels ("ESLs") be used to perform a Tier 1 screening level evaluation.

In response to ACEH's 5 November 2008 letter, BASELINE submitted a workplan, dated 19 June 2009, to the ACEH which addressed the question of the backfill of the sump, clarified earlier statements as to whether the metals in the soil were a source of metals in the groundwater, proposed to defer further investigation of the former drainage ditch, and proposed an additional soil and groundwater investigation for the remaining issues (BASELINE, 2009a).

In a letter to the Brush Street Group, LLC, dated 6 August 2009, the ACEH requested that a revised workplan be prepared to address the following:

- Present more detailed plans and a schedule for the interim impermeable cover to be placed over the Frog Pond;
- Provide further description of the soil sampling methods and proposed well screen intervals;
- Provide additional soil sampling to adequately define the vertical extent of the elevated concentrations of metals in soil;
- Provide information about the purpose, history and fate of liquids discharge to the former drainage ditch;
- Propose additional off-site groundwater sampling; and
- Propose additional investigation activities to evaluate the extent of PAHs and cyanide detected in soil samples collected from within the former Plating Building (Figure 2).

The 6 August 2009 letter agreed to defer an investigation to evaluate the potential for indoor air vapor intrusion until a later date.

In response to ACEH's 6 August letter, BASELINE submitted a revised workplan to ACEH, dated 6 October 2009, which provided additional information about the sealing of the former Frog Pond, the soil sampling methods, the well screen intervals, the known history of the drainage ditch, and past delineation of the hydrocarbons and cyanide detected in soil samples collected from within the former Plating Building (BASELINE, 2009b). The workplan also proposed collecting additional soil samples in the vicinity of the former drainage ditch and the installation of two new wells off-site, one shallow and one deep, to evaluate the horizontal and vertical extent of contamination.

On 9 December 2010, Jerry Wickham and Donna Drogos of ACEH, Tom McCoy of Brush Street Group, LLC, Lydia Huang of BASELINE, Margot Lederer of the City of Oakland, and Mark Jonson of the RWQCB attended a meeting to discuss the revised workplan. In a letter to the Brush Street Group, LLC, dated 10 December 2010, the ACEH requested the revised workplan with the following conditions:

- BASELINE would perform continuous sampling from a depth of 20 feet bgs to the base of the two deeper soil borings;
- The depths of the screen interval for the deeper wells should be based on the depths at which Bay Mud or significant fine-grained soils are encountered in the deeper well borings; and
- Groundwater samples collected from the groundwater monitoring wells would be analyzed for VOCs;

The 9 December 2010 ACEH letter agreed to defer the investigation of the former drainage ditch until a later date.

3.0 PHASE IV INVESTIGATION OBJECTIVES

Based on the communications with ACEH described in Section 2, this soil and groundwater investigation was preformed to achieve the following objectives:

- Assess vertical extent of groundwater contamination near the Frog Pond;
- Assess whether a plume of dissolved metals and VOCs extends a significant distance off-site;
- Define the vertical extent of the elevated concentrations of metals in soil; and
- Perform a Tier 1 screening level evaluation using the RWQCB's ESLs.

4.0 SITE DESCRIPTION

The site is bounded by Seventh Street to the north, Brush Street to the east, a vacant building and lot to the south, and a Shell service station to the west. The adjacent Shell station is also under ACEH oversight due to petroleum releases (Alameda County Case No. RO0000493).

The former Frog Pond was located on the southwestern portion of the site and was a below-grade, concrete structure that measured approximately 70 feet long by 15 feet wide, and four feet deep (Figure 2). It is unknown when the Frog Pond was initially constructed. The former plating operations apparently used the Frog Pond during some plating activities and to contain wastewater, liquids, and solids from on-site treatment of wastes. Sometime in 2003, before the Brush Street Group, LLC became the owner of the site, the Frog Pond was covered with an asphalt concrete cap.

A 2006 investigation by BASELINE to assess the presence of VOCs in the soil and groundwater at the site focused on the southwestern corner, adjacent to the Frog Pond (BASELINE, 2006). During that investigation, high chromium concentrations were identified in one grab groundwater sample. This finding suggested that a source of metals contamination could be present in or under the Frog Pond. As a result, the Brush Street Group, LLC removed the Frog Pond in 2007. The Frog Pond was subsequently covered with a concrete cap.

The eastern portion of the site (former plating building and rear yard) has been improved and the existing building upgraded.

4.1 Hydrogeology

The site is located within the East Bay Plain Subbasin (DWR, 2004). The East Bay Plain Subbasin is a northwest trending alluvial plain bounded on the north by San Pablo Bay, on the east by the contact with Franciscan Basement rock, and on the south by the Niles Cone Groundwater Basin. The East Bay Plain Basin extends beneath San Francisco Bay to the west. Average precipitation in the subbasin ranges from about 17 inches in the southeast to greater than 25 inches along the eastern boundary; most of the precipitation occurs between the months of November and March.

Past investigations indicate that the lithology is consistent across the site. The soil from the surface to three or four feet bgs consists of silty sand/sand fill with some brick and concrete debris. Very fine- to fine-grained sands (Merritt Sands) of the San Antonio Formation underlie the fill and are expected to extend to approximately 60 feet bgs. Regional groundwater flow direction in the San Antonio Formation is southwesterly toward the Oakland Inner Harbor. The hydraulic conductivity has been estimated to be 0.005 centimeter per second (Subsurface Consultants and Todd Engineers, 1997). The Merritt Sands is underlain by plastic clay (Old Bay Mud). The Old Bay Mud is the confining layer for the deeper water-bearing formation.

The depth to groundwater at the site, as measured in 2003 and 2005 ranges from 12.3 to 15.5 feet below the top of the well casing ("TOC") (Table 2). Groundwater monitoring reports from the adjacent Shell service station indicate that the local shallow groundwater flows in a south southwesterly direction (CRA, 2009).

The Merritt Sands, in general, is considered a potential drinking water aquifer; however, the RWQCB does not consider portions of the Merritt Sands located along the Oakland Inner Harbor to be potential drinking water sources. On 19 April 2000, the RWQCB adopted Groundwater Basin Plan Amendments[2], which "dedesignated" the municipal supply beneficial use designation for portions of the Oakland shoreline, including the shoreline along the Oakland Estuary, and therefore, the groundwater in these areas would not be considered an actual or potential drinking water source. The RWQCB adopted the dedesignation amendment because of the brackishness of the groundwater, which met the exemption criteria of the State Water Resources Control Board's Sources of Drinking Water Policy. The site is located upgradient of and about 1,700 feet northeast of the portion of the Oakland shoreline dedesignated by the RWQCB.

5.0 PHASE IV SOIL AND GROUNDWATER INVESTIGATION

5.1 Soil Sampling

Prior to initiating field activities at the site, BASELINE marked the proposed boring locations and notified Underground Service Alert. No conflicts with utilities were identified. BASELINE also obtained boring permits from the Alameda County Public Works Agency (Appendix A).

On 2 and 3 March 2010, BASELINE contracted with Gregg Drilling & Testing, Inc. ("Gregg"), a California-licensed drilling company, to install three shallow groundwater monitoring wells

[2] This dedesignation is implemented on the regional level, but has not been approved by the State Water Resources Control Board.

(MW-FP3, MW-FP4A, and MW-FP5) and one deep groundwater monitoring well (MW-FP4B) at the site. The work was overseen by a BASELINE Professional Geologist. The boreholes were logged in accordance with ASTM Unified Soil Classification System (Appendix B). Borings logs are provided in Appendix B. Soil cuttings were monitored for organic vapor with a photo-ionization detector ("PID").

The boreholes were advanced by Gregg using 8-1/4-inch hollow stem augurs. BASELINE collected soil samples in stainless steel tubes at approximately five-foot intervals, beginning at 5 feet bgs, which corresponds to just below the bottom of the former Frog Pond and other underground vaults previously uncovered. The shallow borings were completed to a total depth of approximately 25 feet bgs. Samples from the deep boring were collected from the same five-foot intervals to 25 feet bgs and then continuously cored from 25 feet to the final depth of 65 feet bgs. The soil samples were labeled with sample location, depth, date, and time and the ends sealed with Teflon sheets and plastic end caps. The soil samples were preserved by placing them in a cooler with ice. All sampling equipment was cleaned before use and after sample collection using an Alconox and water solution and rinsed with clean deionized water.

Soil samples were retained from 5 feet bgs at MW-FP3 and from 5, 10, 15, and 20 feet bgs at MW-FP4A and MW-FP5 for chemical analysis. The samples were transported and submitted to Curtis and Tompkins, Ltd ("C&T"), a California-certified analytical laboratory, under chain-of-custody protocol for the following analyses:

- Title 22 Metals in accordance with EPA Methods 6000/7000 Series;
- Cr-VI in accordance with EPA Method 7196A; and
- VOCs in accordance with EPA Method 8260B.

One soil sample was retained from a depth of 20 feet bgs from MW-FP4A and analyzed for total organic carbon in accordance with the Walkley-Black Method.

One soil sample was retained from a depth of 26 feet bgs from MW-FP4B for geotechnical parameter testing. The soil sample was submitted to Cooper Testing Laboratory under chain-of-custody protocol for the following analyses:

- Hydraulic conductivity in accordance with D5084;
- Effective porosity in accordance with API RP40 and ASTM D6836m; and
- Bulk density in accordance with ASTM D854m.

Drill cuttings and decontamination water were stored in properly labeled 55-gallon DOT compliant drums on-site pending receipt of the analytical data. The drums will be disposed of in accordance with all local, state, and federal regulations.

5.2 Groundwater Well Installation

The three on-site shallow groundwater monitoring wells, MW-FP4A, MW-FP3, and MW-FP5, were constructed of 2-inch PVC with 13 feet of 0.010-inch slotted screen sections. The wells were screened from 12 to 25 feet bgs within the Merritt Sands. A sand filter pack (#2/16 sand) was placed through the hollow-stem auger as the auger was being raised, filling the annular

space between the borehole walls and the well casings to approximately two feet above the screen interval. A two-foot thick bentonite seal was placed on top of the filter pack. The remaining annular space was grouted with neat cement to the surface and the wellheads finished with traffic-rated Christy boxes. The deep well (MW-FP4B) was similarly constructed but screened within the Merritt Sands from 45 to the top of the Old Bay Mud at 57 feet bgs. Well construction diagrams are included with the boring logs in Appendix B.

On 12 April 2010, BASELINE contracted with Gregg to install one shallow off-site well (MW-FP6) and one deep off-site well (MW-FP7B) (Figure 2). Prior to beginning this work, the Brush Street Group, LLC had to enter into an Indenture Agreement with the City of Oakland and obtain a minor encroachment permit for the two off-site wells to be installed in the public right-of-way along Sixth Street. BASELINE also obtained an excavation permit from the City of Oakland. Traffic control was provided by Hernandez Engineering in accordance with the site-specific traffic control plan prepared by BASELINE. These wells were installed similarly to the wells previously installed on-site as described, above.

The top of the well casings were notched or marked to serve as reference for surveying the horizontal and vertical position of the groundwater monitoring wells and the groundwater monitoring well locations were surveyed on 15 April 2010 by Aaron M. Stessman, P.E. of CSS Environmental Services, a California-licensed surveyor (Appendix C).

On 9 March 2010, BASELINE developed the two existing on-site monitoring wells (MW-FP1, and MW-FP2) and the new on-site monitoring wells (MW-FP3, MW-FP4A, and MW-FP5). On 14 March 2010, BASELINE developed the two new off-site monitoring wells (MW-FP6 and MW-FP7B). The monitoring wells were developed using a surge block and a peristaltic pump. The surge block was decontaminated by washing in an Alconox solution and rinsing with de-ionized water. The peristaltic pump was equipped with new disposable polyethylene tubing for each well. Prior to well development, the water level in the monitoring wells was measured from the TOC. The peristaltic pump was used to remove accumulated sediment, while the surge block was used to dislodge fine-grained sediments from the filter pack. Well development continued until the purged groundwater became clear of sediments. Purge water from well development was placed in 55-gallon drums stored on-site and properly labeled for subsequent disposal pending receipt of analytical results. Well development forms are included in Appendix D.

5.3 Groundwater Sampling

On 15 April 2010, the two existing groundwater monitoring wells (MW-FP1, and MW-FP2), the six new groundwater monitoring wells (MW-FP3, MW-FP4A, MW-FP4B MW-FP5, MW-FP6, and MW-FP7B), and two Shell Service Station groundwater monitoring wells (MW-3 and MW-9) (Figure 2) were sampled using a low flow method in accordance with EPA guidance (EPA, 1996). Prior to sampling, the depth to groundwater was measured in each well using a dual phase interface probe. The probe also was used to check for the presence of free-phase product; no free-phase product was detected. Groundwater sampling forms for the sampling conducted on 15 April 2010 are included in Appendix E. Depth to groundwater measurements are summarized on Table 2. After collecting the groundwater samples, BASELINE immediately sealed and labeled the sample containers and stored the samples in a cooler containing ice. The soil and groundwater samples were submitted to C&T under chain-of-custody procedures for the following analyses:

- Dissolved Title 22 Metals in accordance with EPA Methods 6000/7000 Series:
- Cr-VI in accordance with EPA Method 7196A; and
- VOCs in accordance with EPA Method 8260B.

Samples analyzed for dissolved Title 22 metals were filtered by the analytical laboratory.

Purge and decontamination water was stored in properly labeled 55-gallon DOT-compliant drums on-site pending receipt of the analytical data. The purge water will be disposed on in accordance with all local, state, and federal regulations.

6.0 QUALITY ASSURANCE/QUALITY CONTROL

BASELINE reviewed the data provided by the laboratory for completeness and accuracy. All of the laboratory quality assurance and quality control ("QA/QC") goals were met. However, the groundwater sample for volatile organic analysis from MW-FB4B reportedly contained more than one milliliter of headspace, and therefore, may be biased low. A trip blank sample was used to check for cross-contamination during groundwater sampling. The trip blank consisted of laboratory provided de-ionized water and accompanied the samples from time of collection until delivery to the analytical laboratory. The trip blank was analyzed for VOCs; the sample did not contain any reportable concentrations of VOCs (Appendix D).

7.0 ANALYTICAL RESULTS

The list of all the soil and groundwater samples collected during this soil and groundwater investigation are presented on Table 1. Analytical results for soil and groundwater samples collected to date are summarized in Tables 3 through 16. Sample locations are shown on Figure 2. Laboratory reports for the soil and groundwater samples analyzed for this investigation are provided on a compact disk in Appendix F of this report.

Below is an assessment of the analytical data. The analytical results from all four phases of investigations at the site (Phase I in February 2003, Phase II in November 2005, Phase III in March 2006, and Phase IV in 2010) have been screened against the RWQCB's ESLs (RWQCB, 2007, Revised 2008). In this report, ESLs developed for residential and commercial land uses, where groundwater is not a drinking water source were used for screening purposes.

7.1 Soil Sample Results from the Phase IV Investigation

The metals analytical results for soil samples collected are presented in Table 4. All soil samples collected were reported to contain arsenic, barium, beryllium, total chromium, cobalt, copper lead, nickel, vanadium, and zinc above the laboratory reporting limits. All the soil samples except for the soil sample collected from MW-FP3 at 5.0 feet bgs were reported to contain Cr-VI. The soil sample from MW-FP3 at 5.0 feet bgs was the only soil sample reported to contain selenium and the soil samples from MW-FP4A at 5.0 and 10.0 feet bgs were the only soil samples reported to contain cadmium. Antimony, mercury, molybdenum, silver, and thallium were not reported above the laboratory reporting limit in any of the soil samples collected.

Except for total chromium and Cr-VI, none of the metal concentrations reported in the soil samples collected on-site during this investigation exceeded the ESLs for residential or

commercial land use for sites where groundwater is not considered a potential drinking water source (RWQCB, 2007, Revised 2008) and published background values[1] (LBNL, 2002, as revised). Only one soil sample, collected at 5.0 feet bgs from MW-FP4A, contained total chromium above the chromium III ESL for residential or commercial land use for sites where groundwater is not considered a potential drinking water source (Table 4). Figure 3 presents the concentration of Cr-VI reported in soil samples. Cr-VI was reported in soil samples at concentrations exceeding the ESL value from MW-FP4A at 5.0, 10.0, 15.0, and 20.0 feet bgs,[2] the maximum depth for which analyses were performed. The concentration of Cr-VI in soil samples from MW-FP5 collected at 10.0, 15.0, and 20.0 feet bgs exceeded the ESL value; however, the Cr-VI concentrations were notably lower than those reported in soil samples from MW-FP4A.

The results of geotechnical parameter testing performed by Cooper Testing are provided in Table 16 and Appendix F. The average hydraulic conductivity of the soil sample submitted, collected at 26 feet bgs from MW-FP4B was reported to be 3×10^{-7} centimeters per second. Since this was determined using a falling head test, this is representative of the vertical hydraulic conductivity of the soil. While the porosity of the soil was determined to be 38.4 percent, the effective porosity of the soil sample tested was only 0.7 percent. The total organic carbon content for the soil sample collected from MW-FP4A at 20.0 feet bgs was less than 0.01 percent (Table 16). The dry density of the soil sample submitted for geotechnical parameters was 105.8 pounds per cubic foot. These data may be used to evaluate remedial options in the future.

7.2 Groundwater Sample Results from the Phase IV Investigation

The VOC analytical results for those analytes ever reported above the laboratory reporting limits in one or more groundwater samples are presented in Table 10. Groundwater samples were reported to contain acetone, carbon disulfide, chloroform, methyl tertiary-butyl ether ("MTBE"), 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and TCE above laboratory reporting limits in one or more samples collected in April 2010. None of the VOC concentrations reported in the groundwater samples collected on-site or off-site during this investigation exceeded the ESLs for sites where groundwater is not considered a potential drinking water source (RWQCB, 2007, Revised 2008).

The dissolved metals analytical results for the groundwater samples collected are presented in Table 11. Groundwater samples were reported to contain barium, total chromium, Cr-VI, cobalt, copper, molybdenum, nickel, thallium, vanadium, and zinc. Total chromium, Cr-VI, cobalt, copper, nickel, thallium, and vanadium were reported in the groundwater samples collected on-site or off-site at concentrations exceeding the ESLs for sites where groundwater is not considered a potential drinking water source (RWQCB, 2007, Revised 2008). Figure 45 presents the concentration of Cr-VI reported in groundwater samples collected.

7.3 Groundwater Flow Direction And Gradient

The depths to groundwater measured on 15 April 2010 were used to calculate the groundwater elevation at the wells referenced to the North American Vertical Datum 1988 ("NAVD88").

[1] Background values are 99th percentile values established by Lawrence Berkeley National Laboratory.

[2] The 10.0-, 15.0-, and 20.0-foot bgs samples were compared against ESLs for soils deeper than 3 meters.

Groundwater contours based on these elevations is presented on Figure 3. The groundwater flow direction on 15 April 2010 was toward the southwest with gradient of 0.005.

8.0 CONCLUSIONS

The analytical results of the soil and groundwater samples collected during this Phase IV investigation indicate that the elevated concentrations of metals in the soil and groundwater, primarily Cr-VI, originated from the former concrete column associated with the former Frog Pond. The highest concentrations of Cr-VI in both soil and groundwater were reported in the samples collected from MW-FP4A (Tables 4 and 11, Figures 4 and 5). The concentration of Cr-VI was highest at MW-FP4A in the soil sample collected from 20 feet bgs, although the concentration increased from 5.0 to 10.0 feet bgs, then decreased at 15.0 feet bgs and then increased again at 20.0 feet bgs.

The confining Old Bay Mud underlying the shallow groundwater bearing Merritt Sands was located at 57 feet bgs at MW-FP4B and at approximately 50 feet bgs at MW-FP7B (see boring logs Appendix B). Above the Old Bay Mud was the Merritt Sands with varying degrees of silt and clay. The low vertical hydraulic conductivity and effective porosity values reported from the soil sample collected from MW-FP4B at 26 feet bgs indicate that the contaminant vertical migration would likely be slow.

The concentrations of Cr-VI in groundwater decreased from 460,000 µg/L in MW-FP4A, which was screened from 12 to 25 feet bgs, to 30 µg/L in MW-FP4B, which was screen from 45 to 57 feet bgs (Figure 5). This is consistent with the low vertical hydraulic conductivity and effective porosity values reported. The difference between the shallow and deep concentrations of Cr-VI in groundwater were much less dramatic off-site where the Cr-VI concentrations decreased from 15,000 µg/L in MW-FP6 and 5,700 µg/L in MW-9, screened in the shallow groundwater, to 1,200 µg/L in MW-FP7B, which was screened from 39 to 49 feet bgs. These results indicate that the Cr-VI is present at elevated levels in the shallow groundwater. These results also indicate that the Cr-VI has migrated off-site and the plume appears to be undergoing vertical dispersion as indicated by the increase in the Cr-VI concentration in the deeper off-site well, screened in the Merritt Sands, relative to the deeper on-site well, also screened in the Merritt Sands (Figure 5).

VOC concentrations in off-site wells are all below environmental screening levels where groundwater is not a potential drinking water source. Nickel, copper, and cobalt are present in off-site wells at concentrations above environmental screening levels where groundwater is not a potential drinking water source.

9.0 REFERENCES

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FIGURES

REGIONAL LOCATION

Figure 1

751-785 Seventh Street
Oakland, California

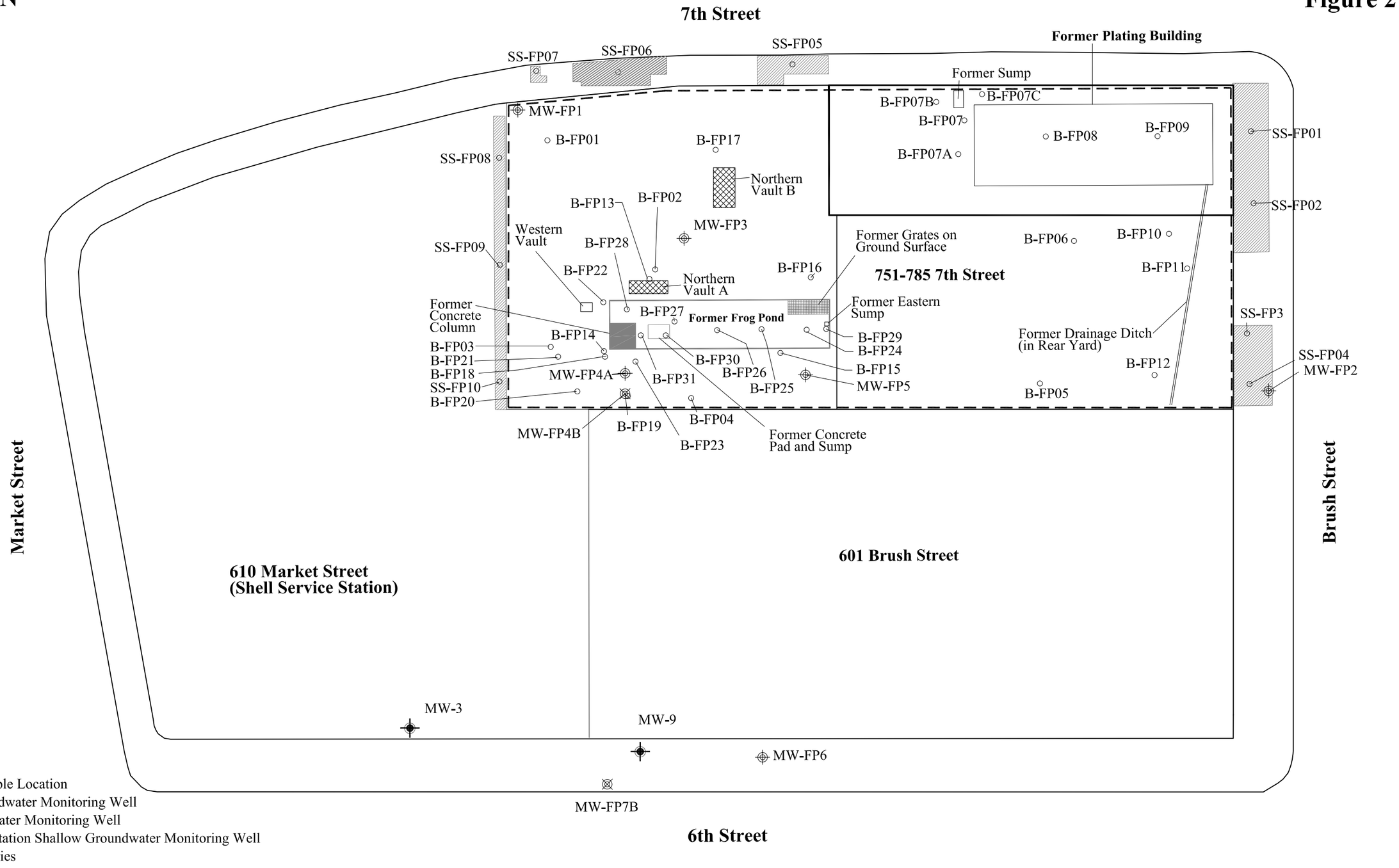
0 2000 Feet

BASELINE

Y0323-03.01478.Fig1.cdr 5/13/10

SITE PLAN

Figure 2



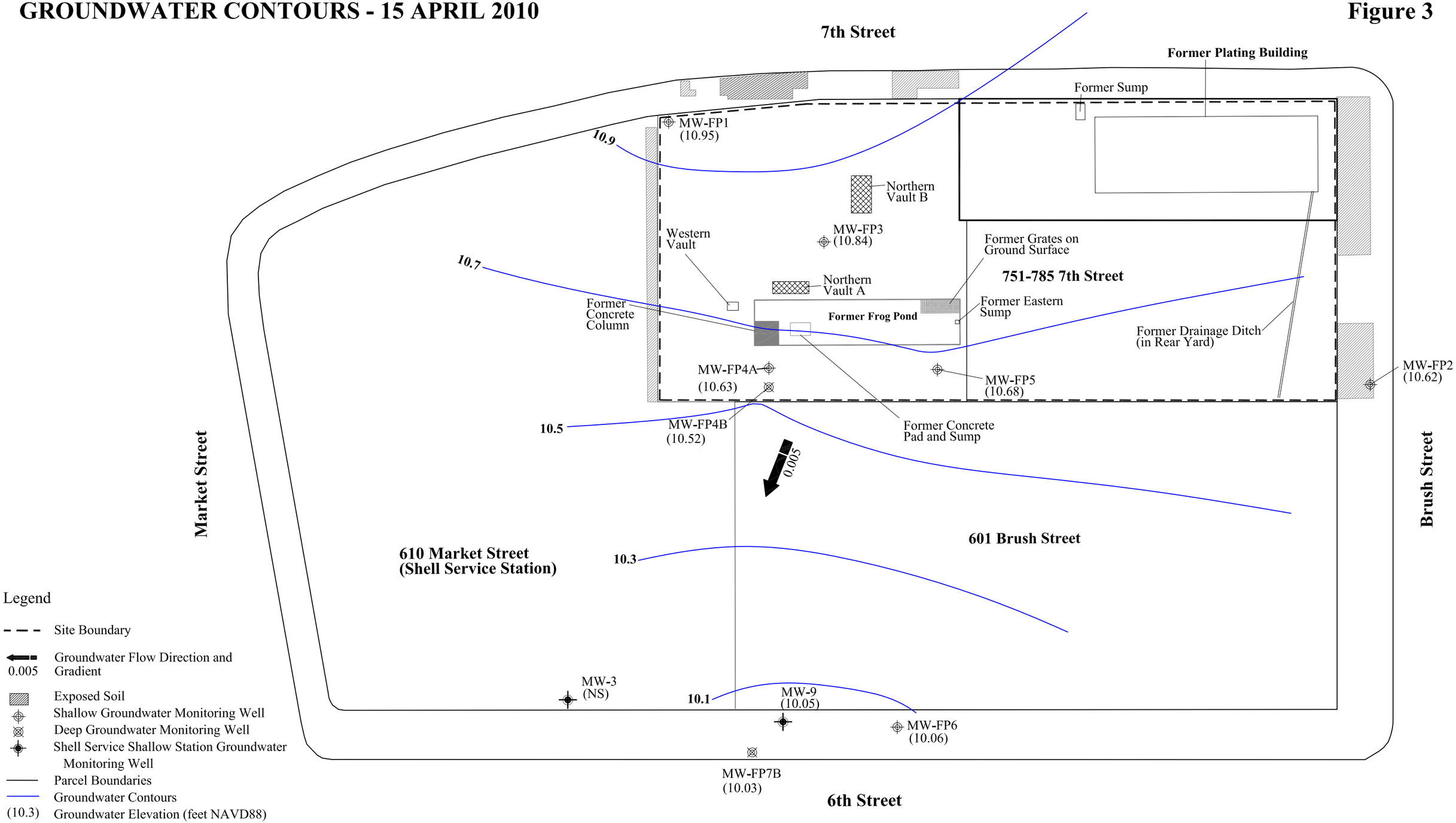
751 - 785 Seventh Street
Oakland, California

Y0323-03.01478.Figure2.dwg 05/28/10

BASELINE

GROUNDWATER CONTOURS - 15 APRIL 2010

Figure 3



Legend

- Site Boundary
- 0.005 — Groundwater Flow Direction and Gradient
- Exposed Soil
- Shallow Groundwater Monitoring Well
- Deep Groundwater Monitoring Well
- Shell Service Shallow Station Groundwater Monitoring Well
- Parcel Boundaries
- Groundwater Contours
- (10.3) — Groundwater Elevation (feet NAVD88)

751 - 785 Seventh Street
Oakland, California

Note: Elevations based on North American Verticle Datum 1988 (NAVD88)
NS = not surveyed

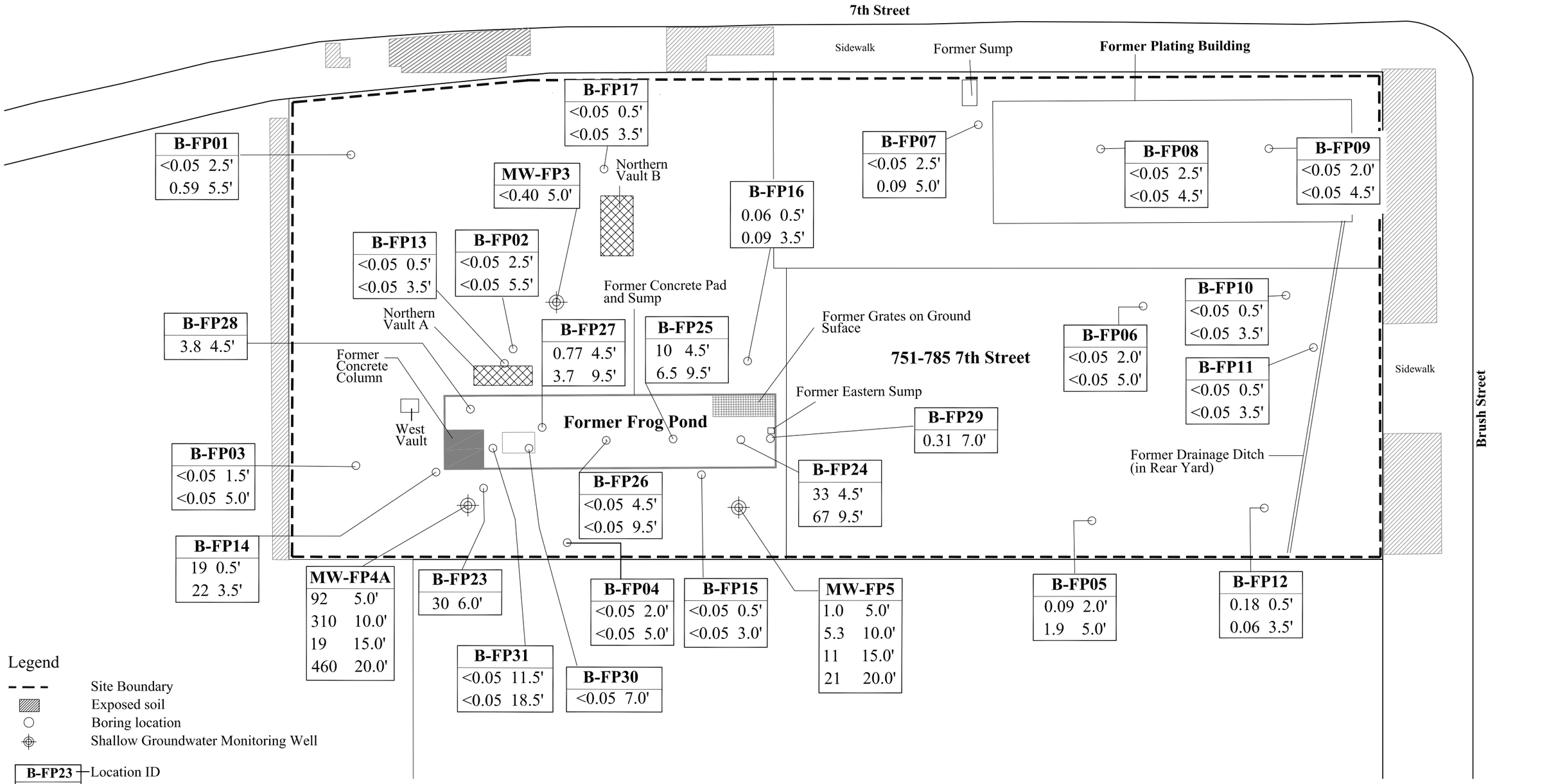
0 30 Feet

BASELINE

Y0323-03.01478.Figure3.dwg 05/28/10

HEXAVALENT CHROMIUM IN SOIL

Figure 4



Legend

- Site Boundary
- Exposed soil
- Boring location
- Shallow Groundwater Monitoring Well

B-FP23 — Location ID
<0.05 2-5' — Depth of Sample Below Ground Surface in Feet
<0.59 5.5' — Hexavalent Chromium Concentration in milligrams per kilogram

751 - 785 Seventh Street
Oakland, California

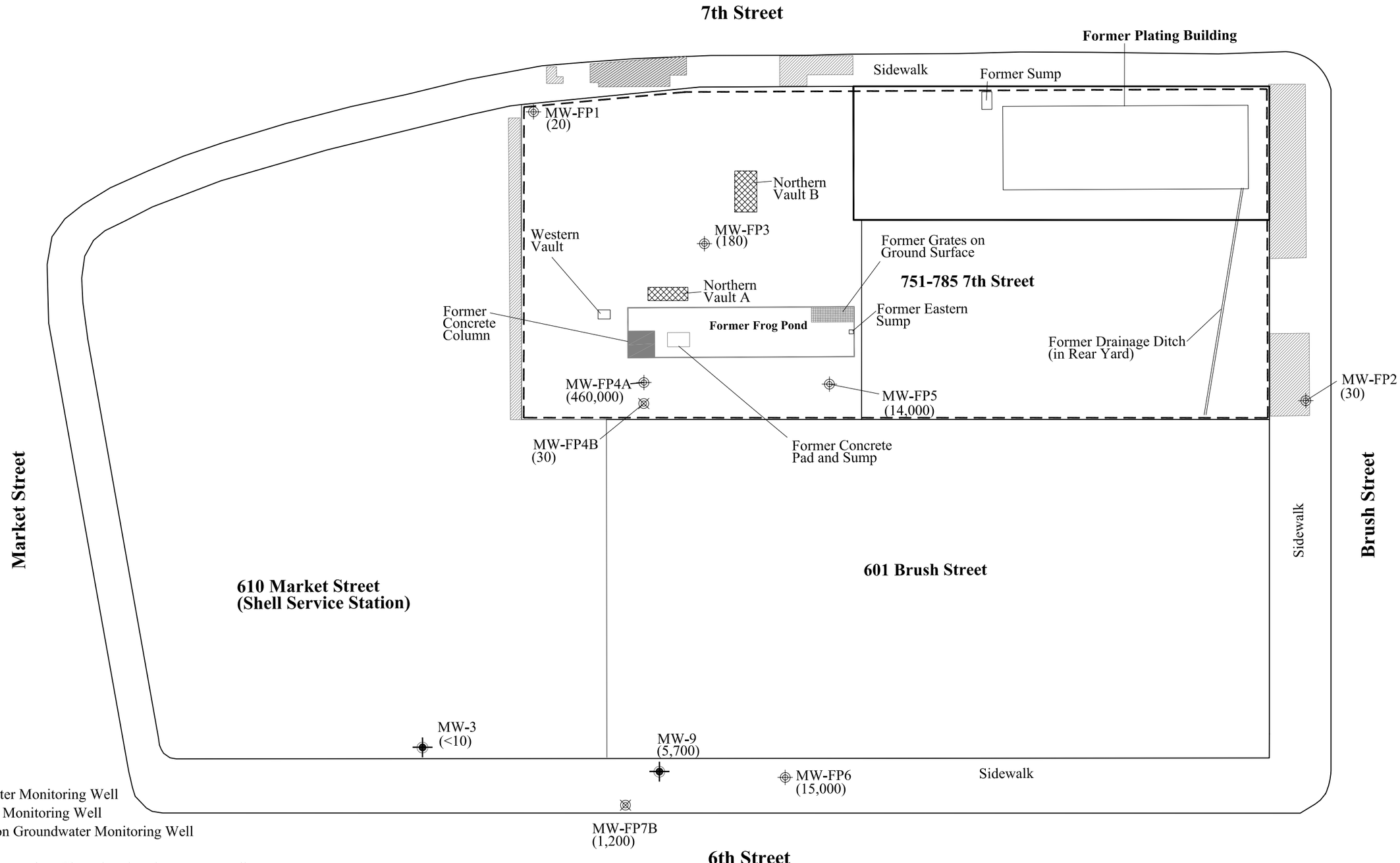
0 20 Feet

BASELINE

Y0323-03.01478.Figure4.dwg 05/28/10

HEXAVALENT CHROMIUM IN GROUNDWATER - 15 APRIL 2010

Figure 5



Legend

- Site Boundary
- Exposed soil
- Shallow Groundwater Monitoring Well
- Deep Groundwater Monitoring Well
- Shell Service Station Groundwater Monitoring Well
- Parcel Boundaries
- (1,200) Concentration of Hexavalent Chromium in micrograms per liter

751 - 785 Seventh Street
Oakland, California

0 30 Feet

BASELINE

Y0323-03.01478.Figure5.dwg 05/28/10

TABLES

Table 1: List of Samples and Analyses, 781-785 Seventh Street, Oakland, California
Phase IV Investigation

Boring	Sample ID	Sample Date	Title 22 Metals	Chromium VI	VOCs	Total Organic Carbon	Hydraulic Conductivity	Effective Porosity	Bulk Density
Soil Samples									
MW-FP3	MW-FP3;5.0-5.5	3/3/2010	X	X					
MW-FP4A	MW-FP4A;5.0-5.5	3/3/2010	X	X					
MW-FP4A	MW-FP4A;10.0-10.5	3/3/2010	X	X					
MW-FP4A	MW-FP4A;15.0-15.5	3/3/2010	X	X					
MW-FP4A	MW-FP4A;20.0-20.5	3/3/2010	X	X		X			
MW-FP4B	MW-FP4B;26-26.5	3/2/2010					X	X	X
MW-FP5	MW-FP5;5.0-5.5	3/3/2010	X	X					
MW-FP5	MW-FP5;10.0-10.5	3/3/2010	X	X					
MW-FP5	MW-FP5;15.0-15.5	3/3/2010	X	X					
MW-FP5	MW-FP5;20.0-20.5	3/3/2010	X	X					
Groundwater Samples									
MW-FP1	MW-FP1	4/15/2010	X	X	X				
MW-FP2	MW-FP2	4/15/2010	X	X	X				
MW-FP3	MW-FP3	4/15/2010	X	X	X				
MW-FP4A	MW-FP4A	4/15/2010	X	X	X				
MW-FP4B	MW-FP4B	4/15/2010	X	X	X				
MW-FP5	MW-FP5	4/15/2010	X	X	X				
MW-FP6	MW-FP6	4/15/2010	X	X	X				
MW-FP7B	MW-FP7B	4/15/2010	X	X	X				

Notes:
VOCs = volatile organic compounds
X = sample analyzed for constituents as indicated
Boring locations are shown on Figure 2.
Results are summarized in Tables 4, 10, 11, and through 16.

Table 2: Groundwater Elevation Data, 781-785 Seventh Street, Oakland, California

Well ID	Date Measured	Top of Well Casing Elevation (ft)	Depth to Water (ft btc)	Groundwater Elevation (ft NAVD88)
Phase I				
MW-FP1	02/12/03	25.77	13.91	11.86
MW-FP2	02/12/03	23.81	12.30	11.51
Phase I				
MW-FP1	11/25/05	25.77	15.50	10.27
MW-FP2	11/25/05	23.81	13.84	9.97
Phase IV				
MW-FP1	04/15/10	25.77	14.82	10.95
MW-FP2	04/15/10	23.81	13.19	10.62
MW-FP3	04/15/10	25.66	14.82	10.84
MW-FP4A	04/15/10	25.64	15.01	10.63
MW-FP4B	04/15/10	25.44	14.92	10.52
MW-FP5	04/15/10	25.69	15.01	10.68
MW-FP6	04/15/10	21.04	10.98	10.06
MW-FP7B	04/15/10	20.51	10.48	10.03
MW-3 (Shell)	04/15/10	NS	11.00	NS
MW-9 (Shell)	04/15/10	21.03	10.98	10.05

Notes:
btc = below top of casing
ft = feet
NS = not surveyed
Elevation datum is North American Vertical Datum of 1988 (NAVD88).
Well locations shown on Figure 2.
Well top of casings surveyed 04/15/10 (Appendix C).

Table 3: Volatile Organic Compounds in Soil, 781-785 Seventh Street, Oakland, California (mg/kg)

Sample Location	Top of Sample Interval (ft bgs)	Sample Date	Acetone	Carbon Disulfide	Methylene Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene
Residential ESLs ≤3 meters (9.8 feet) [1]			0.50	NE	7.2	6.5	10	7.8	1.9
Residential ESLs >3 meters (9.8 feet) [2]			0.50	NE	34	18	39	7.8	33
Commercial ESLs ≤3 meters (9.8 feet) [1]			0.50	NE	17	18	34	7.8	4.1
Commercial ESLs >3 meters (9.8 feet) [2]			0.50	NE	34	18	39	7.8	33
Phase I									
B-FP01	2.5	02/05/03	<0.02	<0.0049	<0.02	<0.0049	<0.0049	<0.0049	<0.0049
B-FP01	5.5	02/05/03	<0.018	<0.0044	<0.018	<0.0044	<0.0044	<0.0044	<0.0044
B-FP02	2.5	02/05/03	<0.019	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	<0.0047
B-FP02	5.5	02/05/03	<0.017	<0.0043	<0.017	<0.0043	<0.0043	<0.0043	<0.0043
B-FP03	1.5	02/04/03	<0.019	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	**0.024**
B-FP03	5.0	02/04/03	<0.019	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	<0.0047
B-FP04	2.5	02/04/03	<0.02	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005
B-FP04	5.0	02/04/03	<0.02	<0.0049	<0.02	<0.0049	<0.0049	<0.0049	<0.0049
B-FP05	2.5	02/04/03	<0.018	<0.0044	<0.018	<0.0044	<0.0044	**0.0054**	**0.033**
B-FP05	5.5	02/04/03	<0.019	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	<0.0047
B-FP06	2.5	02/05/03	<0.019	<0.0048	<0.019	<0.0048	<0.0048	<0.0048	<0.0048
B-FP06	5.5	02/05/03	<0.018	<0.0044	<0.018	<0.0044	<0.0044	**0.005**	<0.0044
B-FP07	2.5	02/05/03	<0.019	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	<0.0047
B-FP07	5.5	02/05/03	<0.018	<0.0045	<0.018	<0.0045	<0.0045	<0.0045	<0.0045
COMP FY[3]	7.0	02/05/03	<0.02	<0.0051	<0.02	<0.0051	<0.0051	<0.0051	<0.0051
COMP RY[4]	7.0	02/05/03	<0.021	<0.0052	<0.021	<0.0052	<0.0052	<0.0052	<0.0052
Phase II									
B-FP08	2.5	11/22/05	<0.019	<0.0048	<0.019	<0.0048	<0.0048	<0.0048	<0.0048
B-FP09	2.0	11/22/05	<0.018	<0.0045	**0.028**	<0.0045	<0.0045	<0.0045	<0.0045
B-FP10	0.5	11/28/05	<0.019	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	<0.0047
B-FP11	0.5	11/28/05	<0.019	<0.0048	<0.019	<0.0048	<0.0048	<0.0048	<0.0048
B-FP12	0.5	11/29/05	<0.019	<0.0046	<0.019	<0.0046	<0.0046	<0.0046	<0.0046
B-FP13	0.5	11/28/05	<0.018	<0.0045	<0.018	<0.0045	<0.0045	<0.0045	<0.0045
B-FP14	0.5	11/29/05	<0.019	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	**0.0094**
B-FP15	0.5	11/29/05	<0.021	<0.0053	<0.021	<0.0053	<0.0053	<0.0053	<0.0053
B-FP15	3.0	11/29/05	<0.019	<0.0048	<0.019	<0.0048	<0.0048	<0.0048	<0.0048
B-FP16	0.5	11/28/05	<0.019	<0.0046	<0.019	<0.0046	<0.0046	<0.0046	<0.0046
B-FP17	0.5	11/28/05	<0.019	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	<0.0047
Phase III									
B-FP18	5.0	03/30/06	<0.016	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004
B-FP18	10.0	03/30/06	<0.016	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004
B-FP19	6.0	03/30/06	<0.016	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004

Table 3: Volatile Organic Compounds in Soil, 781-785 Seventh Street, Oakland, California (mg/kg)

Sample Location	Top of Sample Interval (ft bgs)	Sample Date	Acetone	Carbon Disulfide	Methylene Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene
Residential ESLs ≤3 meters (9.8 feet) [1]			0.50	NE	7.2	6.5	10	7.8	1.9
Residential ESLs >3 meters (9.8 feet) [2]			0.50	NE	34	18	39	7.8	33
Commercial ESLs ≤3 meters (9.8 feet) [1]			0.50	NE	17	18	34	7.8	4.1
Commercial ESLs >3 meters (9.8 feet) [2]			0.50	NE	34	18	39	7.8	33
B-FP19	12.0	03/30/06	<0.015	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	<0.0038
B-FP20	6.0	03/30/06	<0.015	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	<0.0038
B-FP20	12.0	03/30/06	<0.016	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004
B-FP21	6.0	03/30/06	<0.015	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	**0.0044**
B-FP21	12.0	03/30/06	<0.016	<0.004	<0.016	**0.020**	<0.004	<0.004	**0.017**
B-FP22	6.0	03/30/06	<0.017	**0.0092**	<0.017	**0.066**	**0.0045**	<0.0042	**0.040**
B-FP22	12.0	03/30/06	<0.016	<0.004	<0.016	**0.027**	<0.004	<0.004	**0.0077**
B-FP23	6.0	03/30/06	<0.016	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004
B-FP23	12.0	03/30/06	**0.061**	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	**0.005**

Notes:

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

NE = not established

<x.x = compound not identified above laboratory reporting limit of x.x

Analyzed in accordance with EPA Method 8260B.

Only those analytes reported above the laboratory reporting limit in at least one sample are shown.

Sample locations shown on Figure 2.

Values reported above the laboratory reporting limit are indicated in bold text.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

[2] Table D, Environmental Screening Levels, Deep Soils, (> 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

[3] Composite samples from B-FP1, B-FP2, and B-FP4 collected at 7.0-7.5 feet below ground surface.

[4] Composite samples from B-FP5, B-FP6, and B-FP7 collected at 7.0-7.5 feet below ground surface.

Table 4: Metals in Soil, 781-785 Seventh Street, Oakland, California (mg/kg)

Sample Location	Top of Sample Interval (feet bgs)	SampleDate	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium VI	Chromium, Total	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Residential ESLs ≤3 meters (9.8 feet) [1]			6.3	0.39	750	4.0	1.7	8.0	750 [3]	40	230	200	1.3	40	150	10	20	1.3	16	600
Residential ESLs >3 meters (9.8 feet) [2]			310	15	2,500	98	39	0.53	2,500 [3]	94	2,500	750	58	2,500	260	2,500	2,500	62	770	2,500
Commercial ESLs ≤3 meters (9.8 feet) [1]			40	1.6	1,500	8.0	7.4	8.0	750 [3]	80	230	750	10	40	150	10	40	16	200	600
Commercial ESLs >3 meters (9.8 feet) [2]			310	15	2,600	98	39	0.53	5,000 [3]	94	5,000	750	58	3,900	260	3,900	3,900	62	770	5,000
Background [4]			<6	24	410	1.0	5.6	NE	120	25	63	24 [5]	0.42	4.8	272	4.9	2.9	10	90	140
Phase I																				
H	2.5	02/05/03	<0.75	**1.15**	**52.7**	<0.25	<0.5	<0.05	**28.1**	**3.89**	**5.31**	**2.25**	<0.0835	<0.25	**16.1**	<0.75	<0.25	<0.75	**19.6**	**14.9**
B-FP01	5.5	02/05/03	<0.75	**1.04**	**60.2**	**0.382**	<0.5	**0.59**	**49.2**	**16.8**	**9.01**	**3.75**	<0.0835	<0.25	**53.6**	<0.75	<0.25	<0.75	**34.8**	**23.7**
B-FP02	2.5	02/05/03	<0.75	<0.75	**56.1**	<0.25	<0.5	<0.05	**29.1**	**4.21**	**5.74**	**2.44**	<0.0835	<0.25	**17.4**	<0.75	<0.25	<0.75	**20**	**16.3**
B-FP02	5.5	02/05/03	<0.75	<0.75	**70.6**	**0.321**	<0.5	<0.05	**83.4**	**6.88**	**10.2**	**3.33**	<0.0835	<0.25	**99.2**	<0.75	<0.25	<0.75	**34.9**	**24.4**
B-FP03	1.5	02/04/03	<0.75	**0.928**	**71.1**	<0.25	<0.5	<0.05	**37.5**	**4.43**	**5.6**	**5.04**	<0.0835	**0.367**	**17.2**	<0.75	<0.25	<0.75	**18.2**	**15.8**
B-FP03	5.0	02/04/03	<0.75	**1.42**	**53.3**	**0.349**	<0.5	<0.05	**66.8**	**9.7**	**10.1**	**3.54**	<0.0835	<0.25	**995**	<0.75	<0.25	<0.75	**42.5**	**24**
B-FP04	2.0	02/04/03	<0.75	<0.75	**75.6**	<0.25	<0.5	<0.05	**27.3**	**4.05**	**5.77**	**2.43**	<0.0835	<0.25	**16.5**	<0.75	<0.25	<0.75	**19.1**	**16.5**
B-FP04	5.0	02/04/03	<0.75	**1.07**	**43**	**0.326**	<0.5	<0.05	**47.9**	**10.8**	**6.61**	**3.22**	<0.0835	**0.872**	**37**	<0.75	<0.25	<0.75	**32.5**	**45.1**
B-FP05	2.0	02/04/03	<0.75	**0.794**	**55.9**	<0.25	<0.5	**0.09**	**36.6**	**3.86**	**4.79**	**2.83**	<0.0835	<0.25	**17.3**	<0.75	<0.25	<0.75	**20.3**	**13.9**
B-FP05	5.0	02/04/03	<0.75	**0.764**	**28.4**	<0.25	<0.5	**1.9**	**34.8**	**2.55**	**4.6**	**2.08**	<0.0835	<0.25	**19.3**	<0.75	<0.25	<0.75	**21.6**	**11.4**
B-FP06	2.0	02/05/03	<0.75	**3.44**	**134**	<0.25	**0.689**	<0.05	**220**	**5.17**	**19.7**	**1,260**	**0.415**	**1.95**	**368**	<0.75	<0.25	<0.75	**19.3**	**1,260**
B-FP06	5.0	02/05/03	<0.75	**1.78**	**49.2**	**0.339**	<0.5	<0.05	**49.1**	**11.3**	**7.76**	**3.95**	<0.0835	<0.25	**320**	<0.75	<0.25	<0.75	**35.8**	**22.3**
B-FP07	2.5	02/05/03	<0.75	**4.44**	**108**	<0.25	<0.5	<0.05	**38.8**	**4.55**	**24.6**	**141**	**0.139**	**0.65**	**39**	<0.75	<0.25	<0.75	**21.5**	**94**
B-FP07	5.0	02/05/03	<0.75	<0.75	**81**	**0.418**	<0.5	**0.09**	**84.6**	**7.33**	**9.69**	**4.11**	<0.0835	<0.25	**164**	<0.75	<0.25	<0.75	**46.5**	**27.7**
COMP FY [6]	7.0	02/05/03	<0.75	**1.19**	**64.2**	**0.278**	<0.5	<0.05	**54.2**	**7.79**	**7.49**	**2.98**	<0.0835	<0.25	**75.4**	<0.75	<0.25	<0.75	**31.8**	**22.9**
COMP RY [7]	7.0	02/05/03	<0.75	<0.75	**66.3**	**0.266**	<0.5	<0.05	**48.2**	**6.87**	**7.79**	**2.76**	<0.0835	<0.25	**55.4**	<0.75	<0.25	<0.75	**30.6**	**22.4**
Phase II																				
B-FP08	2.5	11/22/05	<2.7	**2.6**	**40**	**0.23**	<0.23	<0.05	**42**	**5.3**	**7.0**	**2.5**	<0.02	<0.9	**32**	<0.23	<0.23	<0.23	**25**	**24**
B-FP08	4.5	11/22/05	<3.1	**2.6**	**50**	**0.24**	<0.26	<0.05	**52**	**6.4**	**9.1**	**2.8**	<0.018	<1	**34**	<0.26	<0.26	<0.26	**32**	**27**
B-FP09	2.0	11/22/05	<3.2	**2.3**	**52**	**0.23**	<0.27	<0.05	**50**	**7.8**	**9.0**	**18**	<0.019	<1.1	**38**	<0.27	<0.27	<0.27	**26**	**33**
B-FP09	4.5	11/22/05	<3.0	**3.3**	**63**	**0.28**	<0.25	<0.05	**51**	**6.7**	**10**	**3.1**	<0.019	<1	**35**	<0.25	<0.25	<0.25	**37**	**26**
B-FP10	0.5	11/28/05	<3.1	**2.5**	**66**	**0.14**	**0.67**	<0.05	**30**	**1.9**	**26**	**60**	**0.029**	<1	**13**	<0.26	<0.26	**0.34**	**22**	**67**
B-FP10	3.5	11/28/05	<2.9	**2.3**	**23**	**0.16**	**0.35**	<0.05	**41**	**12**	**12**	**3.8**	**0.024**	<0.95	**77**	<0.24	<0.24	<0.24	**24**	**69**
B-FP11	0.5	11/28/05	<2.5	**1.8**	**65**	<0.083	**9.0**	<0.05	**1,800**	**3.0**	**56**	**72**	**0.031**	<0.83	**660**	**0.47**	<0.21	**0.96**	**15**	**38**
B-FP11	3.5	11/28/05	<2.1	**1.8**	**37**	**0.22**	**39**	<0.05	**680**	**2.3**	**410**	**2.7**	**0.033**	<0.7	**170**	<0.17	<0.17	**0.52**	**22**	**100**
B-FP12	0.5	11/29/05	<2.1	**2.8**	**68**	**0.15**	**0.39**	**0.18**	**88**	**4.8**	**78**	**2.9**	**0.035**	<0.71	**1,100**	<0.18	<0.18	<0.18	**19**	**69**
B-FP12	3.5	11/29/05	<2.6	**1.8**	**45**	**0.14**	**0.30**	**0.06**	**43**	**2.1**	**4.8**	**1.8**	**0.034**	<0.88	**190**	<0.22	<0.22	<0.22	**20**	**25**
B-FP13	0.5	11/28/05	<2.5	**3.8**	**68**	**0.18**	**0.39**	<0.05	**38**	**3.4**	**12**	**66**	**0.13**	<0.83	**16**	<0.21	<0.21	**0.43**	**22**	**43**
B-FP13	3.5	11/28/05	<3.1	**2.3**	**49**	**0.14**	**0.35**	<0.05	**26**	**2.6**	**7.2**	**38**	**0.079**	<1	**16**	<0.26	<0.26	**0.52**	**19**	**28**
B-FP14	0.5	11/29/05	<3	**5.3**	**180**	**0.19**	**0.69**	**19**	**1,000**	**4.0**	**30**	**290**	**0.44**	<0.99	**19**	<0.25	<0.25	**0.79**	**24**	**170**
B-FP14	3.5	11/29/05	**17**	**2.8**	**24**	**0.1**	**4.2**	**22**	**5,500**	**5.2**	**170**	**3.2**	**0.088**	**1.9**	**520**	<0.26	<0.26	<0.26	**28**	**33**
B-FP15	0.5	11/29/05	<2.9	**2.1**	**71**	**0.17**	**0.36**	<0.05	**32**	**3.5**	**5.5**	**2.6**	<0.02	<0.98	**17**	<0.25	<0.25	<0.25	**23**	**18**
B-FP15	3.0	11/29/05	<2.1	**2.3**	**44**	**0.17**	**0.46**	<0.05	**140**	**3.2**	**16**	**2.3**	**0.020**	<0.68	**22**	<0.17	<0.17	**0.22**	**23**	**16**
B-FP16	0.5	11/28/05	<2.9	**2.1**	**52**	**0.15**	**0.43**	**0.06**	**150**	**3.2**	**4.9**	**2.3**	**0.045**	<0.96	**16**	<0.24	<0.24	<0.24	**21**	**16**
B-FP16	3.5	11/28/05	<2.6	**3.7**	**43**	**0.3**	**0.75**	**0.09**	**77**	**19**	**7.2**	**3.4**	<0.021	**1.6**	**36**	<0.22	<0.22	<0.22	**44**	**20**
B-FP17	0.5	11/28/05	<2.8	**1.9**	**60**	**0.16**	**0.47**	<0.05	**39**	**3.1**	**7.0**	**2.7**	<0.02	<0.93	**20**	<0.23	<0.23	<0.23	**22**	**18**
B-FP17	3.5	11/28/05	<2.9	**2.1**	**29**	**0.15**	**0.33**	<0.05	**31**	**2.5**	**4.6**	**2.1**	<0.023	**1.3**	**16**	<0.24	<0.24	**0.25**	**23**	**14**
COMP 1 [8]	0.0	11/21/05	<3.0	**4.9**	**97**	**0.25**	**2.3**	<0.05	**79**	**5.7**	**48**	**180**	**0.24**	**1.1**	**71**	<0.25	<0.25	<0.25	**33**	**140**

Table 4: Metals in Soil, 781-785 Seventh Street, Oakland, California (mg/kg)

Sample Location	Top of Sample Interval (feet bgs)	SampleDate	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium VI	Chromium, Total	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Residential ESLs ≤3 meters (9.8 feet) [1]			6.3	0.39	750	4.0	1.7	8.0	750 [3]	40	230	200	1.3	40	150	10	20	1.3	16	600
Residential ESLs >3 meters (9.8 feet) [2]			310	15	2,500	98	39	0.53	2,500 [3]	94	2,500	750	58	2,500	260	2,500	2,500	62	770	2,500
Commercial ESLs ≤3 meters (9.8 feet) [1]			40	1.6	1,500	8.0	7.4	8.0	750 [3]	80	230	750	10	40	150	10	40	16	200	600
Commercial ESLs >3 meters (9.8 feet) [2]			310	15	2,600	98	39	0.53	5,000 [3]	94	5,000	750	58	3,900	260	3,900	3,900	62	770	5,000
Background [4]			<6	24	410	1.0	5.6	NE	120	25	63	24 [5]	0.42	4.8	272	4.9	2.9	10	90	140
COMP 2 [9]	1.0	11/21/05	<2.6	**2.4**	**66**	**0.24**	**2.9**	<0.05	**40**	**5.3**	**18**	**7.7**	**0.072**	<0.86	**71**	<0.22	<0.22	<0.22	**25**	**44**
COMP 3 [10]	0.0	11/21/05	<2.3	**2.5**	**65**	**0.25**	**1.5**	<0.05	**42**	**5.7**	**19**	**47**	**0.19**	**2.1**	**48**	<0.19	<0.19	<0.19	**25**	**69**
COMP 4 [11]	1.0	11/21/05	<2.6	**2.3**	**62**	**0.27**	**0.60**	<0.05	**27**	**6.1**	**16**	**32**	**0.32**	**1.6**	**38**	<0.21	<0.21	<0.21	**26**	**65**
COMP 5 [12]	0.0	11/22/05	<2.8	**3.0**	**84**	**0.25**	<0.23	<0.05	**40**	**4.6**	**30**	**190**	**0.22**	<0.93	**22**	<0.23	<0.23	<0.23	**27**	**95**
COMP 6 [13]	1.0	11/22/05	<2.5	**4.6**	**130**	**0.3**	**5.0**	<0.05	**42**	**5.9**	**41**	**230**	**0.40**	**1.2**	**150**	<0.2	**0.37**	<0.2	**23**	**250**
Phase III																				
B-FP23	6.0	03/30/06	--	--	--	--	--	**30**	--	--	--	--	--	--	--	--	--	--	--	--
Frog Pond Removal																				
B-FP24	4.5	05/31/07	<0.25	**2.0**	**51**	<0.25	<0.25	**33**	**48**	**3.1**	**6.7**	**19**	**0.14**	**0.35**	**17**	<0.25	<0.25	<0.25	**18**	**27**
B-FP24	9.5	05/31/07	<0.25	**2.6**	**52**	<0.25	<0.25	**67**	**140**	**6.2**	**7.6**	**2.6**	<0.02	<0.25	**34**	<0.25	<0.25	<0.25	**27**	**23**
B-FP25	4.5	06/01/07	**0.29**	**3.8**	**40**	**0.38**	**0.61**	**10**	**610**	**14**	**49**	**13**	<0.02	**0.85**	**240**	<0.25	<0.25	<0.25	**37**	**30**
B-FP25	9.5	06/01/07	<0.25	**2.2**	**50**	<0.25	**0.31**	**6.5**	**180**	**5.5**	**20**	**2.4**	<0.02	<0.25	**76**	<0.25	<0.25	<0.25	**24**	**25**
B-FP26	4.5	06/01/07	<0.25	**2.7**	**33**	<0.25	<0.25	<0.05	**44**	**2.9**	**4.7**	**2.7**	<0.02	**0.61**	**89**	<0.25	<0.25	<0.25	**29**	**14**
B-FP26	9.5	06/01/07	<0.25	**2.1**	**41**	<0.25	<0.25	<0.05	**36**	**4.3**	**6.9**	**2.2**	<0.02	**0.34**	**33**	<0.25	<0.25	<0.25	**23**	**24**
B-FP27	4.5	06/01/07	**0.81**	**2.0**	**40**	<0.25	**3.1**	**0.77**	**290**	**3.4**	**12**	**48**	**0.045**	**0.59**	**160**	<0.25	<0.25	<0.25	**19**	**28**
B-FP27	9.5	06/01/07	<0.25	**2.1**	**49**	<0.25	<0.25	**3.7**	**44**	**5.0**	**6.8**	**2.5**	<0.02	<0.25	**36**	<0.25	<0.25	<0.25	**23**	**26**
B-FP28	4.5	06/01/07	<0.25	**4.0**	**65**	**0.35**	<0.25	**3.8**	**110**	**7.2**	**9.2**	**3.2**	<0.02	**0.41**	**74**	<0.25	<0.25	<0.25	**42**	**20**
B-FP29	7.0	06/01/07	**0.47**	**2.9**	**62**	**0.33**	**1.5**	**0.31**	**430**	**9.9**	**260**	**4.4**	<0.02	**0.64**	**580**	<0.25	<0.25	<0.25	**32**	**72**
B-FP30	7.0	06/01/07	<0.25	**2.7**	**63**	**0.28**	**0.31**	<0.05	**170**	**6.4**	**10**	**3.7**	<0.02	**0.37**	**1,100**	<0.25	<0.25	<0.25	**32**	**25**
B-FP31 [14]	11.5	06/01/07	<0.25	**3.1**	**59**	**0.33**	<0.25	<0.05	**65**	**10**	**9.4**	**3.9**	<0.021	**0.34**	**51**	<0.25	<0.25	<0.25	**32**	**25**
B-FP31 [14]	18.5	06/05/07	**0.85**	**2.5**	**34**	<0.25	<0.25	<0.05	**1,400**	**7.7**	**220**	**1.6**	<0.020	**0.30**	**1,800**	<0.25	<0.25	<0.25	**22**	**38.7**
Bottom of Concrete Column	20.0	09/05/07	**1.4**	**2.6**	**52**	**0.22**	**3.2**	**3.9**	**240**	**6.1**	**41**	**36**	<0.02	**0.74**	**230**	<0.5	<0.25	<0.5	**29**	**63**
Phase IV																				
MW-FP3	5.0	03/03/10	<0.5	**3.2**	**47**	**0.43**	<0.25	<0.4	**72**	**5.5**	**20**	**3.5**	<0.021	<0.25	**51**	**0.69**	<0.25	<0.5	**38**	**33**
MW-FP4A	5.0	03/03/10	<0.5	**2.1**	**47**	**0.22**	**1.8**	**92**	**1,400**	**6.3**	**88**	**1.7**	<0.02	<0.25	**36**	<0.5	<0.25	<0.5	**29**	**22**
MW-FP4A	10.0	03/03/10	<0.5	**2.1**	**46**	**0.27**	**2.0**	**310**	**440**	**4.9**	**140**	**2.2**	<0.021	<0.25	**62**	<0.5	<0.25	<0.5	**27**	**27**
MW-FP4A	15.0	03/03/10	<0.5	**2.5**	**40**	**0.25**	<0.25	**19**	**130**	**5.6**	**7.1**	**2.1**	<0.02	<0.25	**76**	<0.5	<0.25	<0.5	**33**	**21**
MW-FP4A	20.0	03/03/10	<0.5	**3.0**	**44**	**0.13**	<0.25	**460**	**560**	**4.3**	**5.9**	**0.83**	<0.021	<0.25	**42**	<0.5	<0.25	<0.5	**25**	**18**
MW-FP5	5.0	03/03/10	<0.5	**3.0**	**44**	**0.31**	<0.25	**1.0**	**120**	**2.4**	**23**	**3.3**	<0.02	<0.25	**31**	<0.5	<0.25	<0.5	**45**	**29**
MW-FP5	10.0	03/03/10	<0.5	**2.1**	**43**	**0.21**	<0.25	**5.3**	**43**	**5.7**	**7.6**	**2**	<0.021	<0.25	**30**	<0.5	<0.25	<0.5	**28**	**21**
MW-FP5	15.0	03/03/10	<0.5	**4.4**	**66**	**0.33**	<0.25	**11**	**65**	**8.4**	**10**	**2.5**	<0.02	<0.25	**35**	<0.5	<0.25	<0.5	**43**	**23**
MW-FP5	20.0	03/03/10	<0.5	**1.9**	**28**	**0.11**	<0.25	**21**	**62**	**4.5**	**7.4**	**1.2**	<0.02	<0.25	**28**	<0.5	<0.25	<0.5	**24**	**18**

Table 4: Metals in Soil, 781-785 Seventh Street, Oakland, California (mg/kg)

Notes:
ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
<x.x = compound not identified above laboratory reporting limit of x.x
Analyzed in accordance with EPA Methods 6010B/7400/7196A.
Sample locations shown on Figure 2.
Underlined values exceed the Commercial ESL and background value.
Values reported above the laboratory reporting limit are indicated in bold text.
Yellow shaded values exceed the residential ESL and background value.
[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.
[2] Table D, Environmental Screening Levels, Deep Soils, (> 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.
[3] ESL for Chromium III
[4] Background metals - Lawrence Berkeley National Laboratory ("LBNL"), 2002, Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory, June, revised April 2009 (99th percentile).
[5] Greater than five feet below ground surface.
[6] Composite sample from B-FP1, B-FP2, and B-FP4 collected at 7.0-7.5 feet below ground surface.
[7] Composite sample from B-FP5, B-FP6, and B-FP7 collected at 7.0-7.5 feet below ground surface.
[8] Composite sample from SS-FP1 to SS-FP4 collected at 0.0-0.5 feet below ground surface.
[9] Composite sample from SS-FP1 to SS-FP4 collected at 1.0-1.5 feet below ground surface.
[10] Composite sample from SS-FP5 to SS-FP7 collected at 0.0-0.5 feet below ground surface.
[11] Composite sample from SS-FP5 to SS-FP7 collected at 1.0-1.5 feet below ground surface.
[12] Composite sample from SS-FP8 to SS-FP10 collected at 0.0-0.5 feet below ground surface.
[13] Composite sample from SS-FP1 to SS-FP4 collected at 1.0-1.5 feet below ground surface.
[14] Results were reported by the laboratory on a dry-weight basis. Values in the table have been converted to "as received"-weight basis to be consistent with other samples. Moisture content 14 to 15 percent.

Table 5:
WET and TCLP Metal Concentrations in Soil, 751-785 Seventh Street, Oakland, California (µg/L)

Sample ID	Top of Sample Interval (ft bgs)	Sample Date	Cadmium, DI WET	Copper, DI WET	Lead, DI WET	Nickel, DI WET	Lead, WET	Nickel, WET	Lead, TCLP
Hazardous Waste Criteria [1]			**NA**	**NA**	**NA**	**NA**	**5,000**	**20,000**	**5,000**
Phase I									
B-FP03	5.0	2/4/03	--	--	--	--	--	**31,000**	--
B-FP06	2.0	2/5/03	--	--	--	--	--	--	<300
B-FP06	2.0	2/5/03	--	--	--	--	**1,500**	**17,000**	--
B-FP06	5.0	2/5/03	--	--	--	--	--	**26,000**	--
Phase II									
B-FP10	0.5	11/28/05	--	--	**520**	--	--	--	--
B-FP11	0.5	11/28/05	--	--	**61**	**640**	--	--	--
B-FP11	3.5	11/28/05	**31**	**61**	--	--	--	--	--
B-FP12	0.5	11/29/05	--	--	--	**1,200**	--	--	--
B-FP13	0.5	11/28/05	--	--	**31**	--	--	--	--
B-FP14	0.5	11/29/05	--	--	**11**	--	--	--	--
B-FP14	3.5	11/29/05	--	--	--	**250**	--	--	--
COMP 1	0.0	11/21/05	--	--	**7**	--	--	--	--
COMP 5	0.0	11/22/05	--	--	**14**	--	--	--	--
COMP 6	1.0	11/22/05	--	--	**13**	--	--	--	--

Notes:
COMP X = composite sample
DI WET = Waste Extraction Test using deionized water
NA = not applicable
TCLP = toxicity characteristic leaching procedure
µg/L = micrograms per liter
<x.x = compound not identified above laboratory reporting limit of x.x
-- = not analyzed
Sample locations are shown on Figure 2.
Underlined values exceed hazardous waste criteria.
Values shown in bold are concentrations quantified above laboratory reporting limits.
[1] WET - California Hazardous Waste criteria; TCLP - RCRA Hazardous Waste criteria.

Table 6: Polychlorinated Biphenyls in Soil, 781-785 Seventh Street, Oakland, California (mg/kg)

Sample Location	Top of Sample Interval (feet bgs)	Sample Date	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262
Residential ESLs ≤3 meters (9.8 feet) [1]			0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Commercial ESLs ≤3 meters (9.8 feet) [1]			0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Phase I										
B-FP01	2.5	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP01	5.5	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP02	2.5	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP02	5.5	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP03	1.5	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP03	5.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP04	2.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP04	5.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP05	2.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP05	5.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP06	2.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP06	5.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP07	2.5	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP07	5.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
COMP FY [2]	7.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
COMP RY [3]	7.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes:

COMP X = composite sample

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

<x.x = compound not identified above laboratory reporting limit of x.x

Analyzed in accordance with EPA Methods 8082.

Sample locations are shown on Figure 2.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

[2] Composite sample from B-FP1, B-FP2, and B-FP4 collected at 7.0-7.5 feet below ground surface.

[3] Composite sample from B-FP5, B-FP6, and B-FP7 collected at 7.0-7.5 feet below ground surface.

Table 7: Polynuclear Aromatic Hydrocarbons in Soil, 781-785 Seventh Street, Oakland, California (mg/kg)

Sample Location	Top of Sample Interval (feet bgs)	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Residential ESLs ≤3 meters (9.8 feet) [1]			**19**	**13**	**2.8**	**0.38**	**0.038**	**0.38**	**27**	**0.38**	**23**	**0.062**	**40**	**8.9**	**0.62**	**1.3**	**11**	**85**
Commercial ESLs ≤3 meters (9.8 feet) [1]			**19**	**13**	**2.8**	**1.3**	**0.13**	**1.3**	**27**	**1.3**	**23**	**0.21**	**40**	**8.9**	**2.1**	**2.8**	**11**	**85**
Phase I																		
B-FP01	2.5	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP01	5.5	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP02	2.5	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP02	5.5	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP03	1.5	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP03	5.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP04	2.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP04	5.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP05	2.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP05	5.0	02/04/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP06	2.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP06	5.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B-FP07	2.5	02/05/03	**0.14**	**0.55**	**0.20**	**1.5**	**3.9**	**2.0**	**3.4**	**0.85**	**2.2**	**2.6**	**3.0**	**0.091**	**2.4**	**1.8**	**1.3**	**4.6**
B-FP07	5.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
COMP FY [2]	7.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
COMP RY [3]	7.0	02/05/03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phase II																		
B-FP07A	2.5	11/28/05	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
B-FP07B	2.0	11/29/05	<0.005	<0.005	<0.005	**0.011**	**0.023**	**0.015**	**0.027**	**0.016**	**0.016**	**0.0065**	**0.017**	<0.005	**0.019**	<0.005	**0.0097**	**0.018**
B-FP07B	3.5	11/29/05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0069**	<0.005	<0.005
B-FP07C	2.5	11/22/05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:

COMP X = composite sample

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

<x.x = compound not identified above laboratory reporting limit of x.x

Analyzed in accordance with EPA Methods 8310.

Sample locations are shown on Figure 2.

Underlined values exceed the Commercial ESL and background value.

Values reported above the laboratory reporting limit are indicated in bold text.

Yellow shaded values exceed the residential ESL.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

[2] Composite sample from B-FP1, B-FP2, and B-FP4 collected at 7.0-7.5 feet below ground surface.

[3] Composite sample from B-FP5, B-FP6, and B-FP7 collected at 7.0-7.5 feet below ground surface.

Table 8: Cyanide and pH in Soil, 781-785 Seventh Street, Oakland, California

Sample Location	Top of Sample Interval (feet bgs)	Sample Date	Total Cyanide (mg/kg)	pH
Residential ESLs ≤3 meters (9.8 feet) [1]			0.0036	NA
Commercial ESLs ≤3 meters (9.8 feet) [1]			0.0036	NA
Phase I				
B-FP01	2.5	02/05/03	<1	5.9
B-FP01	5.5	02/05/03	<1	6.3
B-FP02	2.5	02/05/03	<1	5.7
B-FP02	5.5	02/05/03	<1	5.2
B-FP03	1.5	02/04/03	<1	7.0
B-FP03	5.0	02/04/03	<1	6.4
B-FP04	2.0	02/04/03	<1	5.9
B-FP04	5.0	02/04/03	<1	7.5
B-FP05	2.0	02/04/03	<1	7.8
B-FP05	5.0	02/04/03	<1	7.5
B-FP06	2.0	02/05/03	<1	5.9
B-FP06	5.0	02/05/03	<1	6.1
B-FP07	2.5	02/05/03	<1	9.2
B-FP07	5.0	02/05/03	**11**	8.0
COMP FY [2]	7.0	02/05/03	<1	6.2
COMP RY [3]	7.0	02/05/03	<1	7.4

Notes:

COMP X = composite sample

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

<x.x = compound not identified above laboratory reporting limit of x.x

Cyanide analyzed in accordance with EPA Methods 335.2.

pH analyzed in accordance with EPA Methods 9045C.

Sample locations are shown on Figure 2.

Underlined values exceed the Commercial ESL and background value.

Values reported above the laboratory reporting limit are indicated in bold text.

Yellow shaded values exceed the residential ESL.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

[2] Composite sample from B-FP1, B-FP2, and B-FP4 collected at 7.0-7.5 feet below ground surface.

[3] Composite sample from B-FP5, B-FP6, and B-FP7 collected at 7.0-7.5 feet below ground surface.

Table 9: Petroleum Hydrocarbons in Soil, 781-785 Seventh Street, Oakland, California (mg/kg)

Sample Location	Top of Sample Interval	Sample Date	TPH as diesel	TPH as gasoline
Residential ESLs ≤3 meters (9.8 feet) [1]			100	100
Commercial ESLs ≤3 meters (9.8 feet) [1]			180	180
Phase I				
B-FP01	2.5	02/05/03	--	<0.19
B-FP01	2.5	02/05/03	<1	--
B-FP01	5.5	02/05/03	--	<0.16
B-FP01	5.5	02/05/03	<1	--
B-FP02	2.5	02/05/03	--	<0.19
B-FP02	2.5	02/05/03	<1	--
B-FP02	5.5	02/05/03	--	<0.19
B-FP02	5.5	02/05/03	<1	--
B-FP03	1.5	02/04/03	--	<0.19
B-FP03	1.5	02/04/03	<1	--
B-FP03	5.0	02/04/03	--	<0.17
B-FP03	5.0	02/04/03	<1	--
B-FP04	2.0	02/04/03	<1	--
B-FP04	2.5	02/04/03	--	<0.2
B-FP04	5.0	02/04/03	<1	<1.1
B-FP05	2.5	02/04/03	--	<0.17
B-FP05	2.0	02/04/03	**3.4**	--
B-FP05	5.5	02/04/03	--	<0.18
B-FP05	5.0	02/04/03	<1	--
B-FP06	2.5	02/05/03	--	<0.2
B-FP06	2.0	02/05/03	<1	--
B-FP06	5.5	02/05/03	--	<0.18
B-FP06	5.0	02/05/03	<1	--
B-FP07	2.5	02/05/03	--	<0.21
B-FP07	2.5	02/05/03	**3.6**	--
B-FP07	5.5	02/05/03	--	<0.2
B-FP07	5.0	02/05/03	<1	--
COMP FY [2]	7.0	02/05/03	<1	<1
COMP RY [3]	7.0	02/05/03	<1	<0.98

Notes:

COMP X = composite sample

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

TPH = total petroluem hydrocarbons

<x.x = compound not identified above laboratory reporting limit of x.x

Sample locations are shown on Figure 2.

TPH as diesel analyzed in accordance with EPA Methods 8015M with silica gel clean-up.

TPH as gasoline analyzed in accordance with EPA Methods 8015M.

Values reported above the laboratory reporting limit are indicated in bold text.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

[2] Composite sample from B-FP1, B-FP2, and B-FP4 collected at 7.0-7.5 feet below ground surface.

[3] Composite sample from B-FP5, B-FP6, and B-FP7 collected at 7.0-7.5 feet below ground surface.

Table 10: Volatile Organic Compounds in Groundwater, 781-785 Seventh Street, Oakland, California (µg/L)

Sample Location	Sample Date	Acetone	m,p-Xylenes	o-Xylene	MTBE	Carbon Disulfide	2-Chlorotoluene	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene
Residential/Commercial ESLs [1]		1,500	100	100	1,800	NE	NE	330	25	590	590	62	360
Phase I													
B-FP04	02/05/03	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**21**
B-FP05	02/05/03	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**42**
MW-FP1	02/12/03	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-FP2	02/12/03	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phase II													
B-FP07A	11/29/05	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B-FP09	11/22/05	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	<0.5
B-FP10	11/28/05	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.1**	<0.5	<0.5	**9.8**	**8.9**
B-FP11	11/28/05	<10	<0.5	<0.5	**7.7**	<0.5	<0.5	<0.5	**0.5**	<0.5	<0.5	**1.2**	**1.2**
B-FP13	11/29/05	**13**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**11**	**0.9**	<0.5	**13**
B-FP14	11/29/05	<400	<20	<20	<20	<20	<20	<20	<20	**2,200**	**58**	<20	**1,000**
B-FP16	11/28/05	<10	<0.5	<0.5	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	<0.5	<0.5	**8**
B-FP17	11/28/05	<10	<0.5	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SS-FP09	11/29/05	<10	<0.5	**1.0**	<0.5	<0.5	**4.1**	<0.5	<0.5	**1.7**	<0.5	<0.5	**3.6**
MW-FP1	11/28/05	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-FP2	11/28/05	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.6**
Phase III													
B-FP18	03/31/06	<170	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	**1,200**	**26**	<8.3	**600**
B-FP19	03/30/06	<10	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	**6.4**
B-FP20	03/30/06	<400	<20	<20	<20	<20	<20	<20	<20	**3,000**	**31**	<20	**390**
B-FP21	03/31/06	<63	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	**540**	**6.3**	<3.1	**57**
B-FP22	03/31/06	<630	<31	<31	<31	<31	<31	<31	<31	**3,400**	**88**	<31	**1,500**
B-FP23	03/30/06	<71	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	**5.3**	**520**	**11**	<3.6	**310**

Table 10: Volatile Organic Compounds in Groundwater, 781-785 Seventh Street, Oakland, California (µg/L)

Sample Location	Sample Date	Acetone	m,p-Xylenes	o-Xylene	MTBE	Carbon Disulfide	2-Chlorotoluene	Chloroform	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene
Residential/Commercial ESLs [1]		1,500	100	100	1,800	NE	NE	330	25	590	590	62	360
Phase IV													
MW-FP1	04/15/10	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-FP2	04/15/10	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-FP3	04/15/10	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.9**
MW-FP4A	04/15/10	**34**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.5**	**31**	**1.9**	<0.5	**51**
MW-FP4B [2]	04/15/10	<10	<0.5	<0.5	<0.5	<0.5	<0.5	**19**	<0.5	<0.5	<0.5	<0.5	<0.5
MW-FP5	04/15/10	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**
MW-FP6	04/15/10	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**9.4**
MW-FP7B	04/15/10	<10	<0.5	<0.5	**1.3**	<0.5	<0.5	**7.9**	<0.5	**2.3**	<0.5	<0.5	**4.9**
MW-3 (Shell)	04/15/10	<10	<0.5	<0.5	**1.0**	**0.6**	<0.5	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5
MW-9 (Shell)	04/15/10	<10	<0.5	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	**48**	**0.9**	<0.5	**27**

Notes:

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

MTBE = methyl tertiary-butyl ether

NE = not established

Shell =groundwater monitoring wells from Shell Service Station at 610 Market Street

µg/L = microgram per liter

<x.x = compound not identified above laboratory reporting limit of x.x

Analyzed in accordance with EPA Method 8260B.

Laboratory reports for Phase II and III investigations are included in Appendix D.

Only those analytes reported above the laboratory reporting limit in at least one sample are shown.

Sample locations shown on Figure 2.

Values reported above the laboratory reporting limit are indicated in bold text.

Yellow shaded values exceed the ESL.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

[2] The groundwater sample for volatile organic analysis from MW-FB4B reportedly contains more than one milliliter of headspace, and therefore, may be biased low.

Table 11: Dissolved Metals in Groundwater, 781-785 Seventh Street, Oakland, California (µg/L)

Sample Location	Sample Date	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Chromium VI, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Lead, Dissolved	Mercury, Dissolved	Molybdenum, Dissolved	Nickel, Dissolved	Selenium, Dissolved	Silver, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
Residential/Commercial ESLs [1]		30	36	1,000	0.53	0.25	11	180	3.0	3.1	2.5	0.025	240	8.2	5.0	0.19	4.0	19	81
Phase I																			
B-FP04	02/05/03	<60	<5	**110**	<2	<5	<10	<10	<20	<10	<3	<0.2	<20	**32**	<5	<5	<5	<10	<20
B-FP05	02/05/03	<60	<5	**62**	<2	<5	**10**	**17**	<20	<10	<3	<0.2	<20	**96**	**11**	<5	<5	<10	<20
MW-FP1	02/12/03	<60	<5	**67**	<2	<5	<10	<10	<20	<10	<3	<0.2	<20	**24**	<5	<5	<5	<10	<20
MW-FP2	02/12/03	<60	<5	**74**	<2	<5	**70**	**61**	<20	<10	<3	<0.2	<20	<20	<5	<5	<5	<10	<20
Phase III																			
B-FP23	03/31/06	<600	<5	<10	<2	<5	**360,000**	**1,300,000**	**300**	<10	**120**	**0.25**	**160**	**1,000**	<50	**18**	**250**	**160**	<200
FP-GRAB GW [2]	06/04/07	**180**	**13**	**15**	<2	<5	**100,000**	**93,000**	**37**	**15**	<3	<0.2	**23**	**270**	<10	<5	**16**	**25**	<20
Phase IV																			
MW-FP1	04/15/10	<10	<5.0	**41**	<2.0	<5.0	**20**	**13**	<5.0	<5.0	<5.0	<0.20	<5.0	**16**	<10	<5.0	<10	<5.0	<2.0
MW-FP2	04/15/10	<10	<5.0	**61**	<2.0	<5.0	**30**	**22**	<5.0	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<5.0	<10	<5.0	<2.0
MW-FP3	04/15/10	<10	<5.0	**49**	<2.0	<5.0	**180**	**150**	<5.0	<5.0	<5.0	<0.20	<5.0	**25**	<10	<5.0	<10	<5.0	**71**
MW-FP4A	04/15/10	<10	<5.0	<5.0	<2.0	<5.0	**460,000**	**400,000**	**180**	**37**	<5.0	<0.20	**68**	**930**	<10	<5.0	**110**	<5.0	**61**
MW-FP4B	04/15/10	<10	<5.0	**41**	<2.0	<5.0	**30**	**43**	<5.0	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<5.0	<10	**20**	**30**
MW-FP5	04/15/10	<10	<5.0	**51**	<2.0	<5.0	**14,000**	**11,000**	**5.6**	<5.0	<5.0	<0.20	**16**	**9.9**	<10	<5.0	<10	<5.0	**25**
MW-FP6	04/15/10	<10	<5.0	**40**	<2.0	<5.0	**15,000**	**11,000**	**6.1**	**6.5**	<5.0	<0.20	<5.0	**26**	<10	<5.0	<100	<5.0	**33**
MW-FP7B	04/15/10	<10	<5.0	**34**	<2.0	<5.0	**1,200**	**1,200**	<5.0	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<5.0	<10	<5.0	<2.0
MW-3 (Shell)	04/15/10	<10	<5.0	**190**	<2.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<5.0	<10	<5.0	**20**
MW-9 (Shell)	04/15/10	<10	<5.0	**64**	<2.0	<5.0	**5,700**	**4,900**	<5.0	**5.8**	<5.0	<0.20	<5.0	**19**	<10	<5.0	<10	<5.0	**26**

Notes:

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

Shell = groundwater monitoring wells from Shell Service Station at 610 Market Street.

µg/L = micrograms per liter

<x.x = compound not identified above laboratory reporting limit of x.x

Analyzed in accordance with EPA Methods 6010B/7400/7196A.

Sample locations shown on Figure 2.

Values reported above the laboratory reporting limit are indicated in bold text.

Yellow shaded values exceed the ESL.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

[2] Grab goundwater sample collected underneath former Frog Pond, adjacent to concrete column.

Table 12: Polychlorinated Biphenyls in Groundwater , 781-785 Seventh Street, Oakland, California (µg/L)

Sample Location	Sample Date	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262
Residential/Commercial ESLs [1]		**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**
Phase I									
B-FP04	02/05/03	<1	<1	<1	<1	<1	<1	<1	<1
B-FP05	02/05/03	<1	<1	<1	<1	<1	<1	<1	<1
MW-FP1	02/12/03	<0.47	<0.94	<0.47	<0.47	<0.47	<0.47	<0.47	--
MW-FP2	02/12/03	<0.49	<0.97	<0.49	<0.49	<0.49	<0.49	<0.49	--

Notes:

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

µg/L = micrograms per liter

<x.x = compound not identified above laboratory reporting limit of x.x

Analyzed in accordance with EPA Methods 8082.

Sample locations shown on Figure 2.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

Table 13: Polynuclear Aromatic Hydrocarbons in Groundwater, 781-785 Seventh Street, Oakland, California (µg/L)

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Residential/Commercial ESLs [1]		**23**	**30**	**0.73**	**0.027**	**0.014**	**0.029**	**0.10**	**0.40**	**0.35**	**0.25**	**8.0**	**3.9**	**0.048**	**24**	**4.6**	**2.0**
Phase I																	
B-FP04	02/05/03	<1	<1	<1	<1	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
B-FP05	02/05/03	<1	<1	<1	<1	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-FP1	02/12/03	<0.94	<1.9	<0.09	<0.09	<0.09	<0.19	<0.19	<0.09	<0.09	<0.19	<0.19	<0.19	<0.09	<0.94	<0.09	<0.09
MW-FP2	02/12/03	<0.94	<1.9	<0.09	<0.09	<0.09	<0.19	<0.19	<0.09	<0.09	<0.19	<0.19	<0.19	<0.09	<0.94	<0.09	<0.09
Phase II																	
B-FP07A	11/29/05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-FP1	11/28/05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MW-FP2	11/28/05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Notes:

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

µg/L = micrograms per liter

<x.x = compound not identified above laboratory reporting limit of x.x

Analyzed in accordance with EPA Methods 8310 or 8270C-SIM.

Sample locations shown on Figure 2.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

Table 14: Cyanide and pH in Groundwater, 781-785 Seventh Street, Oakland, California

Sample Location	Sample Date	Total Cyanide (µg/L)	pH
Residential/Commercial ESLs [1]		1.0	
Phase I			
B-FP04	02/05/03	<10	--
B-FP05	02/05/03	<10	--
MW-FP1	02/12/03	<10	--
MW-FP2	02/12/03	<10	--
Phase III			
B-FP23	03/31/06	--	10.1

Notes:

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

µg/L = micrograms per liter

<x.x = compound not identified above laboratory reporting limit of x.x

Cyanide analyzed in accordance with EPA Methods 335.2.

pH analyzed in accordance with EPA Methods 9045C.

Sample locations shown on Figure 2.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

Table 15: Petroleum Hydrocarbons in Groundwater, 781-785 Seventh Street, Oakland, California (µg/L)

Sample Location	Sample Date	TPH as diesel	TPH as gasoline
Residential/Commercial ESLs [1]		**210**	**210**
Phase I			
B-FP03	02/04/03	<50	**150**
B-FP04	02/05/03	<50	<50
B-FP05	02/05/03	<50	<50
MW-FP1	02/12/03	**260**	<50
MW-FP2	02/12/03	**110**	<50
Phase II			
B-FP07A	11/29/05	<50	<50
MW-FP1	11/28/05	<50	<50
MW-FP2	11/28/05	<50	<50

Notes:

ESLs = Environmental Screening Levels; Source: RWQCB, 2007, Revised May 2008.

TPH = total petroluem hydrocarbons

µg/L = micrograms per liter

<x.x = compound not identified above laboratory reporting limit of x.x

Sample locations are shown on Figure 2.

TPH as diesel analyzed in accordance with EPA Methods 8015M with silica gel clean-up.

TPH as gasoline analyzed in accordance with EPA Methods 8015M.

Values reported above the laboratory reporting limit are indicated in bold text.

Yellow shaded values exceed the ESL.

[1] Table B, Environmental Screening Levels, Shallow Soils, (≤ 3 m bgs), Groundwater is not a Current or Potential Source of Drinking Water.

Table 16: Geotechnical Parameters, 781-785 Seventh Street, Oakland, California

SampleID	Sample Depth (ft bgs)	Soil Type	Average permeabiliy (cm/sec)	Total porosity	Effective porosity	Density (pcf)	Total Organic Carbon (mg/kg)
MW-FP4B	26.0-26.5	Grayish brown clayey sand	3E-07	38.4%	0.7%	105.8	NA
MW-FP4A	20.0-20.5	Dark yellowish brown sand, some silt	NA	NA	NA	NA	<0.01%

Notes:

cm/sec = centimeters per second

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

NA = not analyzed

pcf = pounds per cubic foot

Hydraulic conductivity test performed in accordance with ASTM D5084.

Sample location shown on Figure 2.

Soil sample collected on 03/02/10.

Specific gravity test performed in accordance with ASTM D854m.

Total and effective porosity test performed in accordance with API RP40 and ASTM D6836m.

Total organic carbon analyzed in accordance with the Walkley-Black Method.

APPENDICES

APPENDIX A
ALAMEDA COUNTY BORING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 02/23/2010 By jamesy

Permit Numbers: W2010-0096 to W2010-0101
Permits Valid from 04/12/2010 to 04/16/2010

Application Id: 1266604422199
City of Project Site: Oakland
Site Location: 751-785 Seventh Street
Oakland CA
Project Start Date: 03/02/2010
Completion Date: 03/06/2010
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org
Extension Start Date: 04/12/2010
Extension End Date: 04/16/2010
Extension Count: 1
Extended By: vickyh1

Applicant: BASELINE - William Scott
5900 Hollis St. Suite D, Emeryville, CA 94608
Phone: 510-420-8686 x190

Property Owner: Brush Street Group LLC
1153 3rd Street Suite 230, Oakland, CA 94607
Phone: 510-000-0000

Client: BASELINE Environmental
5900 Hollis St. Suite D, Emeryville, CA 94608
Phone: 510-420-8686 x190

Contact: William Scott
Phone: 510-420-8686 x190
Cell: 510-612-7153

Total Due: $2382.00
Receipt Number: WR2010-0046 **Total Amount Paid:** $2382.00
Payer Name : william scott Paid By: MC **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 6 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: hstem **Work Total: $2382.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-0096	02/23/2010	05/31/2010	MW-FP3	8.00 in.	2.00 in.	10.00 ft	25.00 ft
W2010-0097	02/23/2010	05/31/2010	MW-FP4A	8.00 in.	2.00 in.	10.00 ft	25.00 ft
W2010-0098	02/23/2010	05/31/2010	MW-FP4B	8.00 in.	2.00 in.	32.00 ft	50.00 ft
W2010-0099	02/23/2010	05/31/2010	MW-FP5	8.00 in.	2.00 in.	10.00 ft	25.00 ft
W2010-0100	02/23/2010	05/31/2010	MW-FP6	8.00 in.	2.00 in.	10.00 ft	25.00 ft
W2010-0101	02/23/2010	05/31/2010	MW-FP7B	8.00 in.	2.00 in.	32.00 ft	50.00 ft

Specific Work Permit Conditions

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

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

waterways or be allowed to move off the property where work is being completed.

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

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

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

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

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

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

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

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

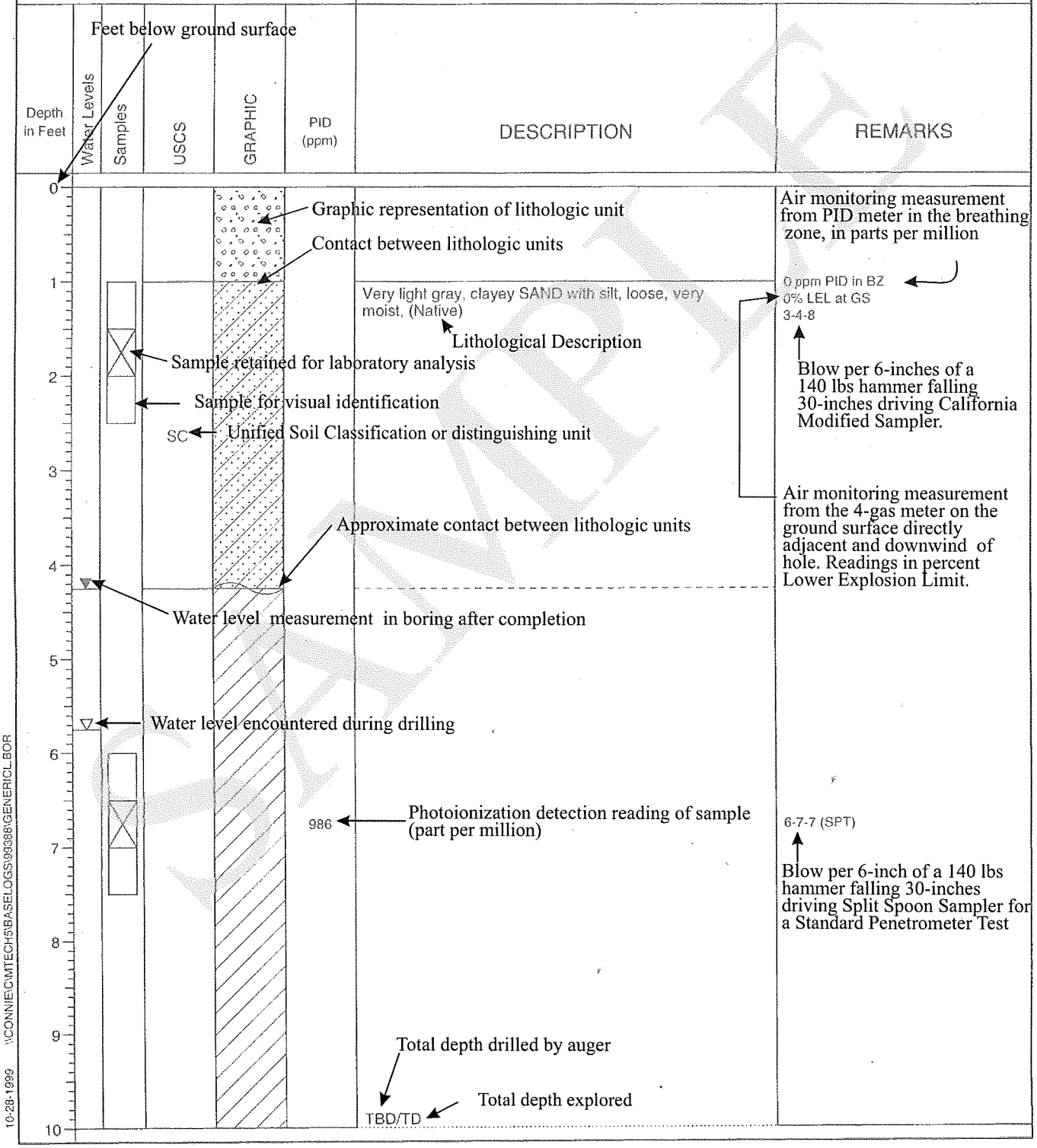
APPENDIX B
BORING LOGS

BASELINE

SAMPLE BORING LOG

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: Company X	Boring no.	: B1
Driller	: ABC Drilling	Project no.	: 00000
Method	: Hollow Stem	Date	: 2/18/99
Logger	: WKS	Casing size	: 2-inch
Datum (feet)	: 0.0	Bore size	: 7 3/4 inch



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UNIFIED SOILS CLASSIFICATION

PRIMARY DIVISIONS			GROUP SYMBOL	SECONDARY DIVISIONS
COARSE GRAINED SOILS — MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVELS — MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS (LESS THAN 5% FINES)	GW	Well graded gravels, gravel-sand mixtures, little or no fines.
			GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
		GRAVEL WITH FINES	GM	Silty gravels, gravel-sand-silt mixtures, non-plastic fines.
			GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.
	SANDS — MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS (LESS THAN 5% FINES)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES	SM	Silty sands, sand-silt mixtures, non-plastic fines.
			SC	Clayey sands, sand-clay mixtures, plastic fines.
FINE GRAINED SOILS — MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS — LIQUID LIMIT IS LESS THAN 50%		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS — LIQUID LIMIT IS GREATER THAN 50%		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils.

DEFINITION OF TERMS

U.S. STANDARD SERIES SIEVE — CLEAR SQUARE SIEVE OPENINGS

200	40	10	4	3/4"	3"	12"

SILTS AND CLAYS	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		

GRAIN SIZES

SANDS AND GRAVELS	BLOWS/FOOT†
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	OVER 50

RELATIVE DENSITY

SILTS AND CLAYS	STRENGTH‡	BLOWS/FOOT†
VERY SOFT	0 - 1/4	0 - 2
SOFT	1/4 - 1/2	2 - 4
FIRM	1/2 - 1	4 - 8
STIFF	1 - 2	8 - 16
VERY STIFF	2 - 4	16 - 32
HARD	OVER 4	OVER 32

CONSISTENCY

† Number of blows of 140-pound hammer falling 30 inches to drive a 2-inch O.D. (1-3/8 inch I.D.) split spoon (ASTM D-1586).
‡ Unconfined compressive strength in tons/square foot as determined by laboratory testing or approximated by the standard penetration test (ASTM D-1586), pocket penetrometer, torvane, or visual observation.

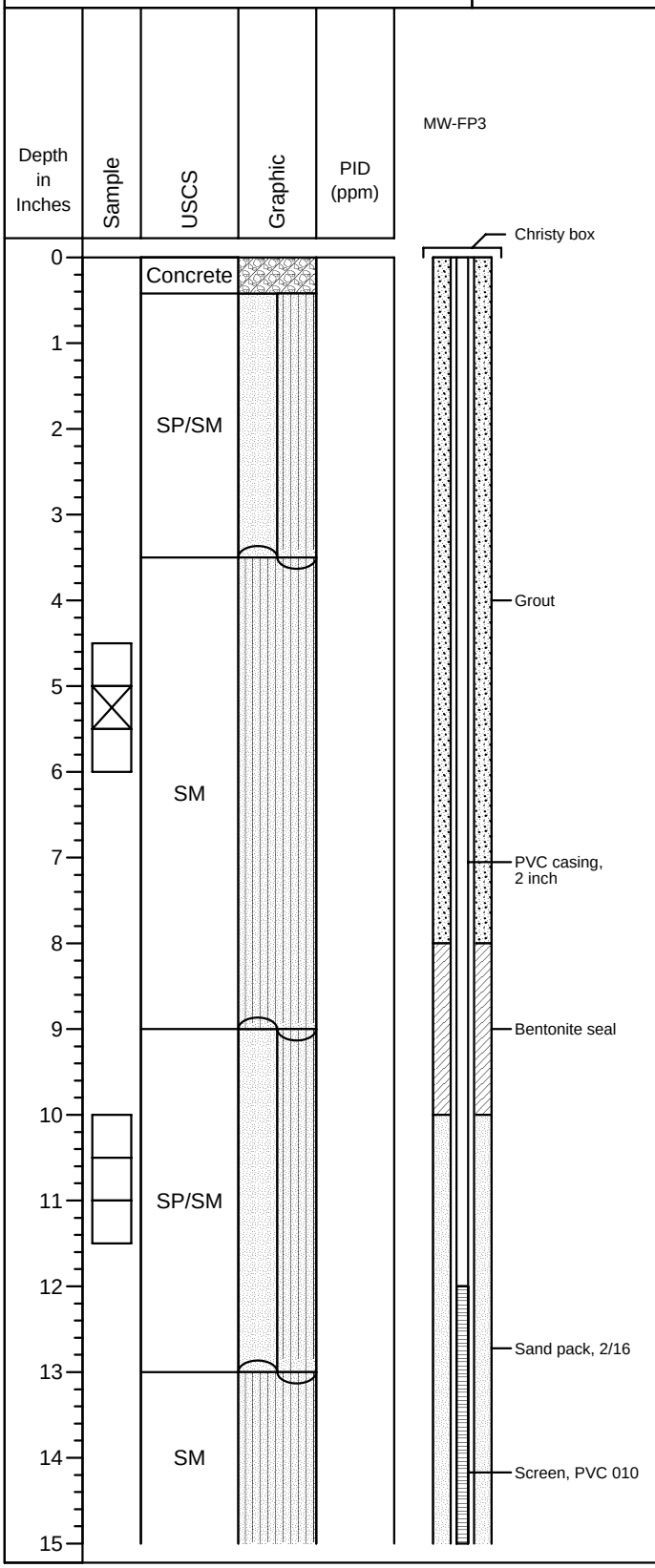
BASELINE

BASELINE

LOG OF BORING: MW-FP3

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP3
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/3/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4



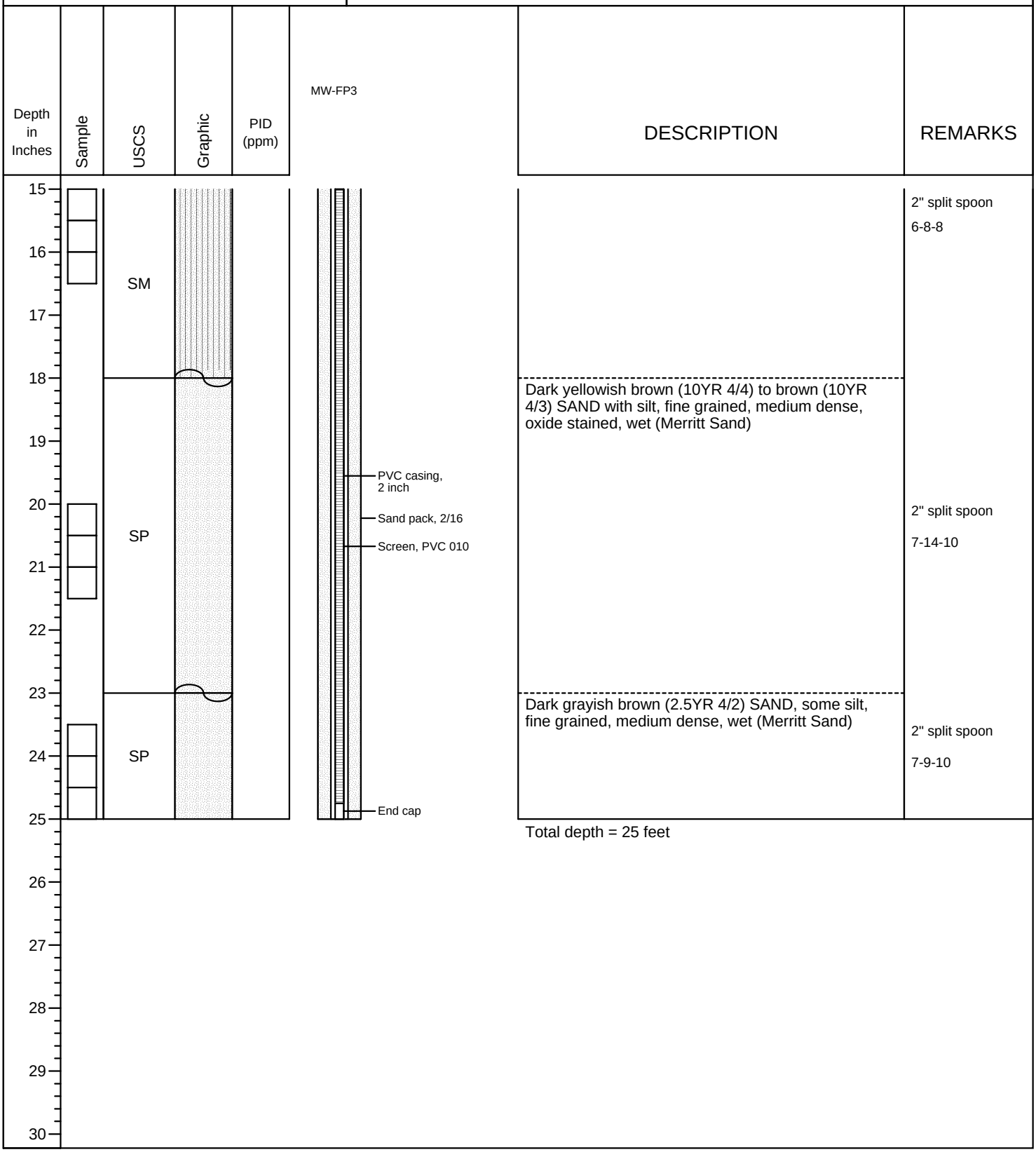
DESCRIPTION	REMARKS
Concrete slab, 5 inches	
Very dark brown (10YR 2/2) silty SAND-SAND, fine grained, loose, moist (Fill)	
Yellowish brown (10YR 5/4) silty SAND, fine grained, medium dense, oxide stained, very moist (Merritt Sand)	2" split spoon 5-7-8
Dark yellowish brown (10YR 4/4) SAND-silty SAND, fine grained, medium dense, oxide stained, very moist (Merritt Sand)	
Mottled dark yellowish brown (10YR 3/6) and yellowish brown (10YR 5/4) silty SAND, trace clay, medium dense, oxide stained, very moist to wet (Merritt Sand)	

BASELINE

LOG OF BORING: MW-FP3

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP3
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/3/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4



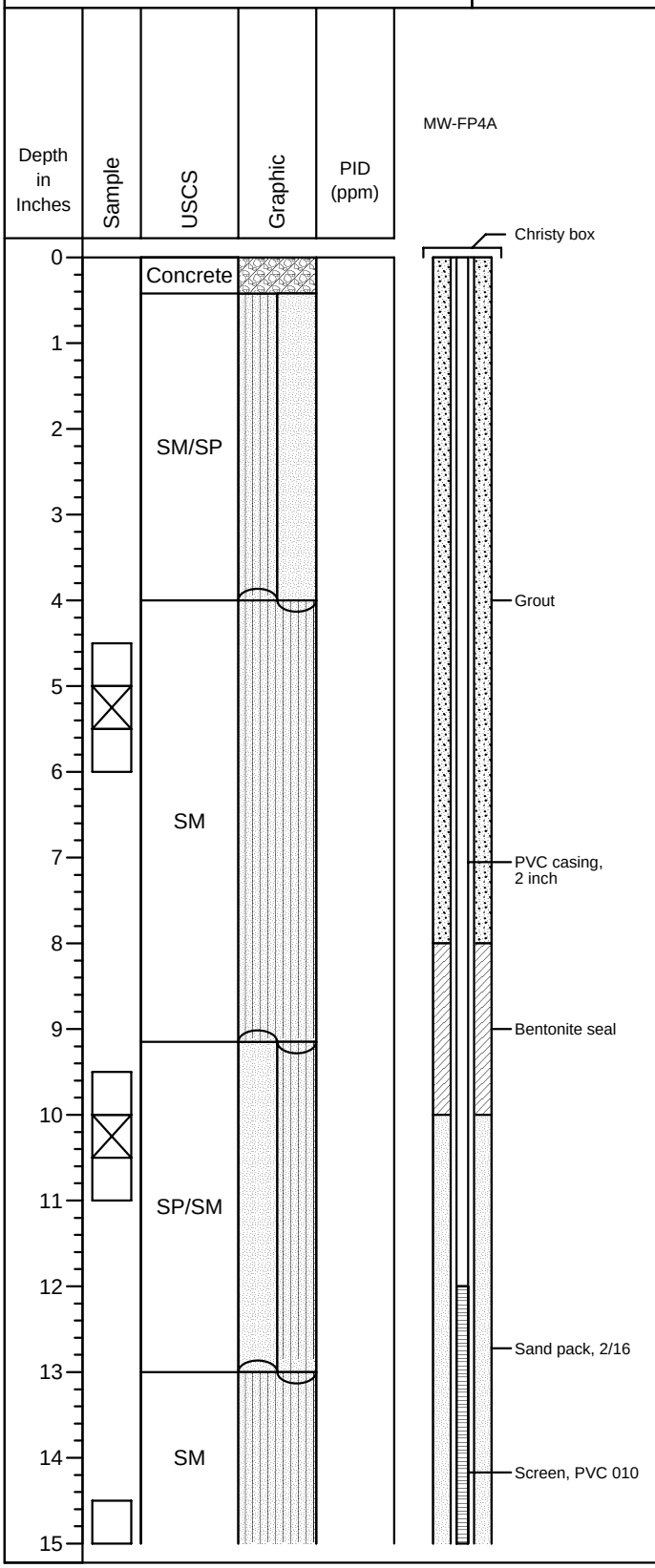
Total depth = 25 feet

BASELINE

LOG OF BORING: MW-FP4A

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP4A
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/3/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4



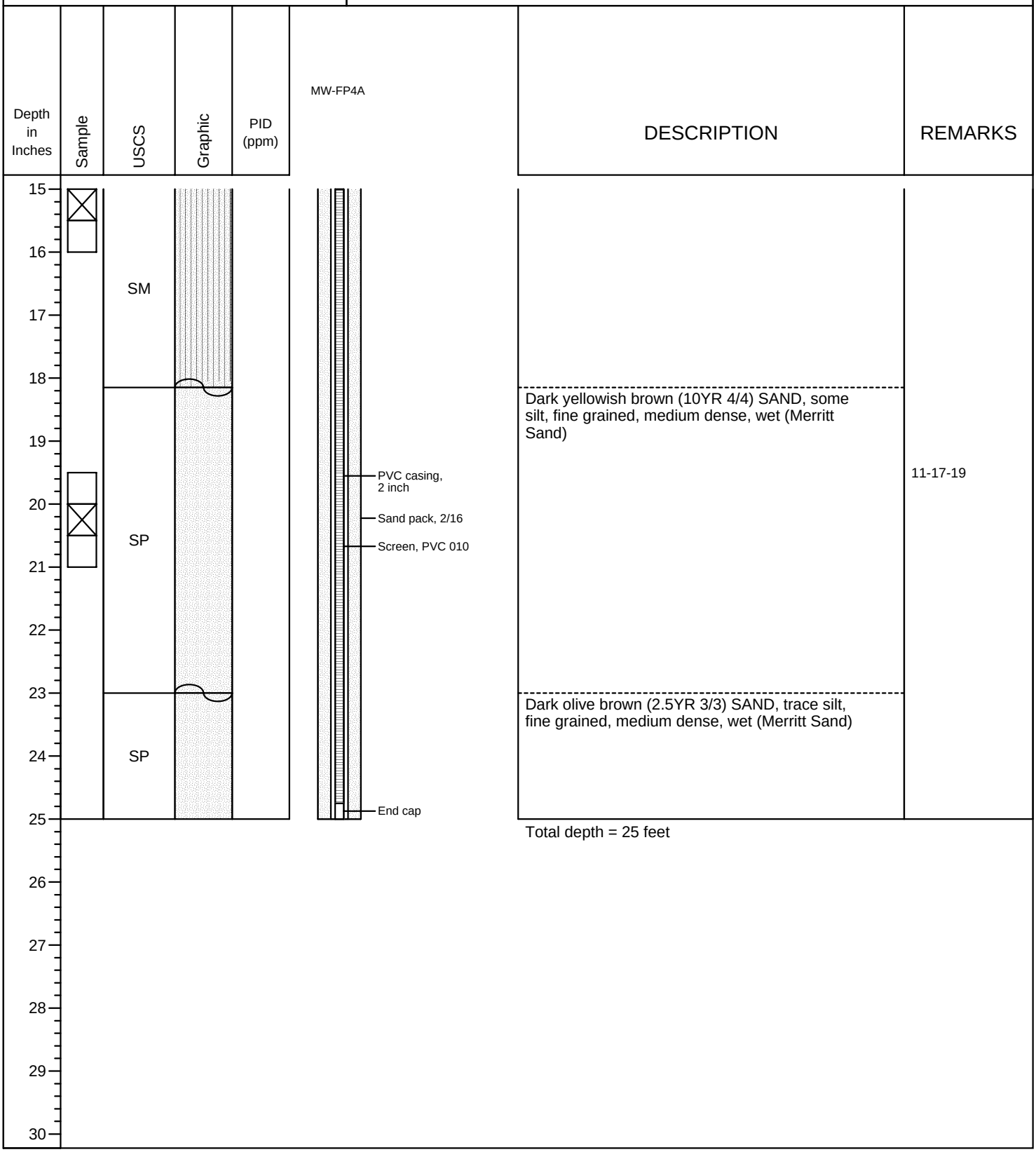
DESCRIPTION	REMARKS
Concrete slab, 5 inches	
Very dark brown (10YR 2/2) silty SAND-SAND, fine grained, brick pieces, loose, moist (Fill)	
Yellowish brown (10YR 5/4) silty SAND, fine grained, loose, oxide stained, very moist (Merritt Sand)	2" split spoon 7-11-17
Dark yellowish brown (10YR 4/4) SAND-silty SAND, fine grained, medium dense, oxide stained, very moist (Merritt Sand)	7-9-13
Mottled dark yellowish brown (10YR 3/6) and yellowish brown (10YR 5/4) silty SAND, trace clay, medium dense, oxide staining, very moist to wet (Merritt Sand)	5-5-8

BASELINE

LOG OF BORING: MW-FP4A

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP4A
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/3/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4



Total depth = 25 feet

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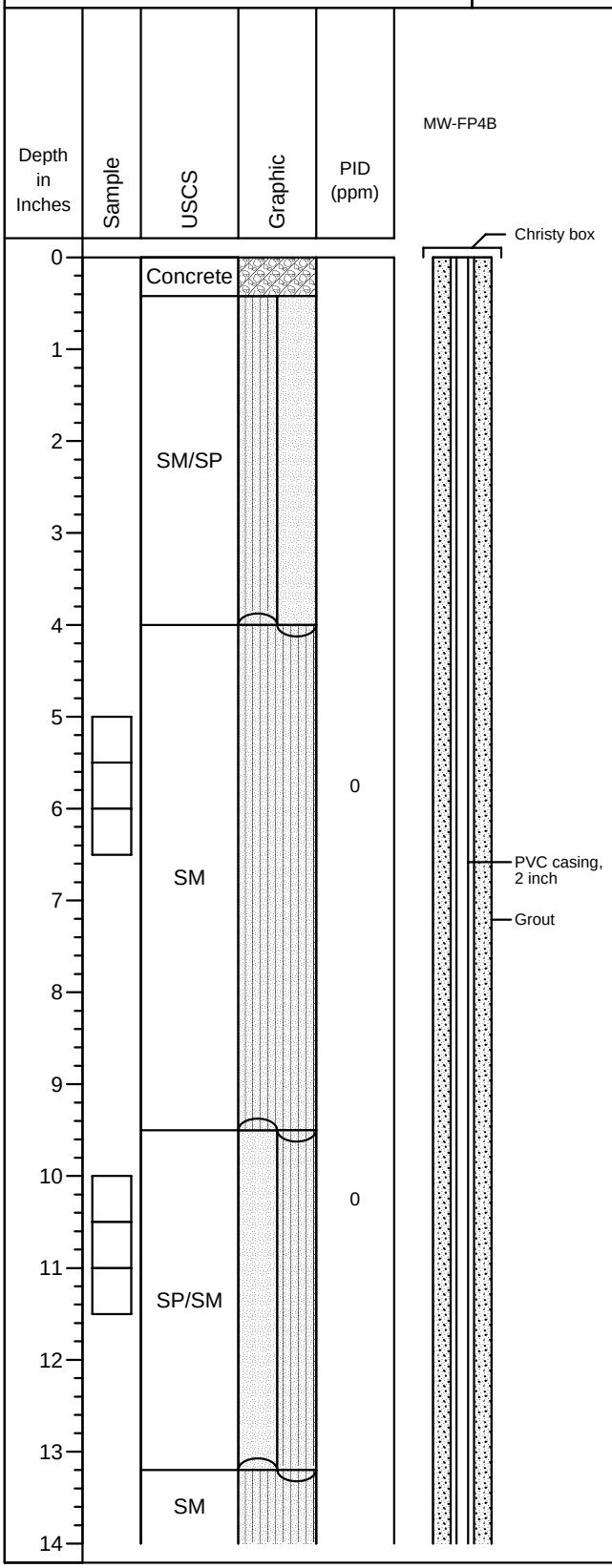
BASELINE

LOG OF BORING: MW-FP4B

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP4B
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/2/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4



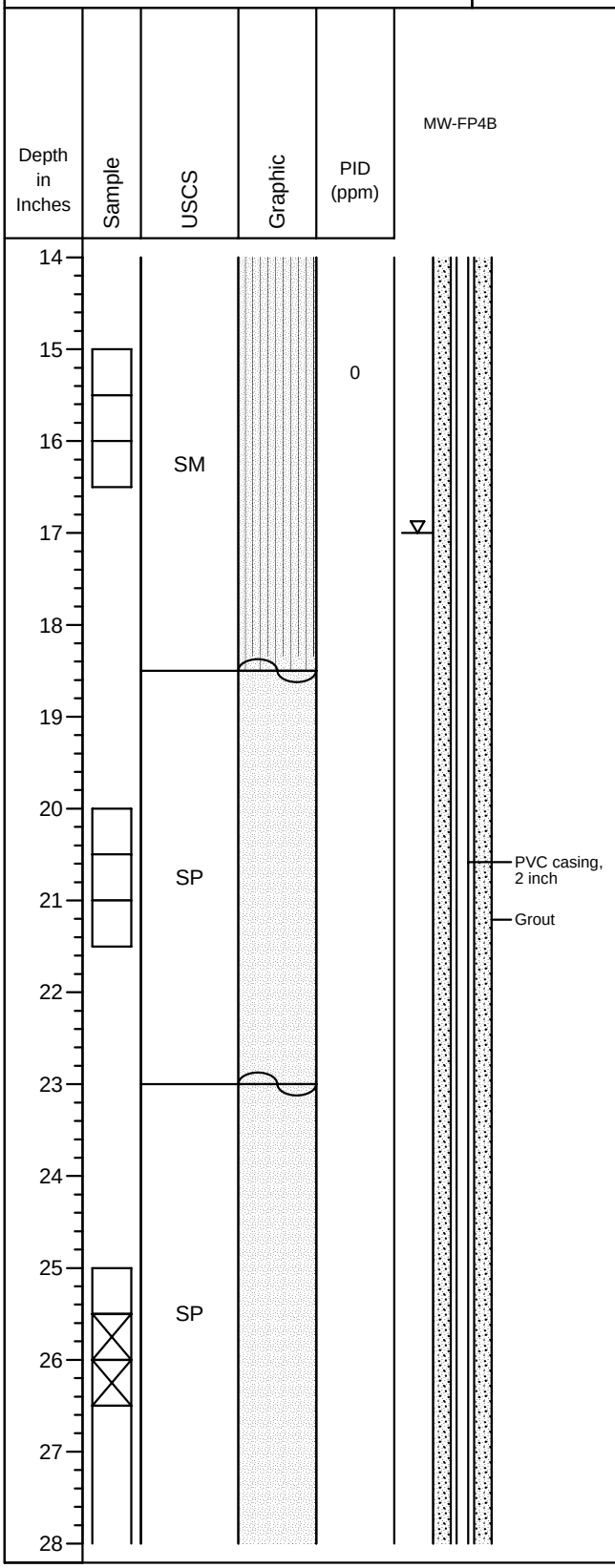
DESCRIPTION	REMARKS
Concrete slab, 5 inches	
Very dark brown (10YR 2/2) silty SAND-SAND, fine grained, brick pieces at 2.0 feet, loose, moist (Fill)	
Yellowish brown (10YR 5/4) silty SAND, fine grained, loose, oxide stained, very moist (Merritt Sand)	2" split spoon 2-2-3
Dark yellowish brown (10YR 4/4) SAND-silty SAND, fine grained, medium dense, oxide staining, very moist (Merritt Sand)	2" split spoon 8-16-15
Mottled dark yellowish brown (10YR 3/6) and yellowish brown (10YR 5/4) silty SAND, trace clay, loose, oxide staining, very moist to wet (Merritt Sand)	

BASELINE

LOG OF BORING: MW-FP4B

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP4B
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/2/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4



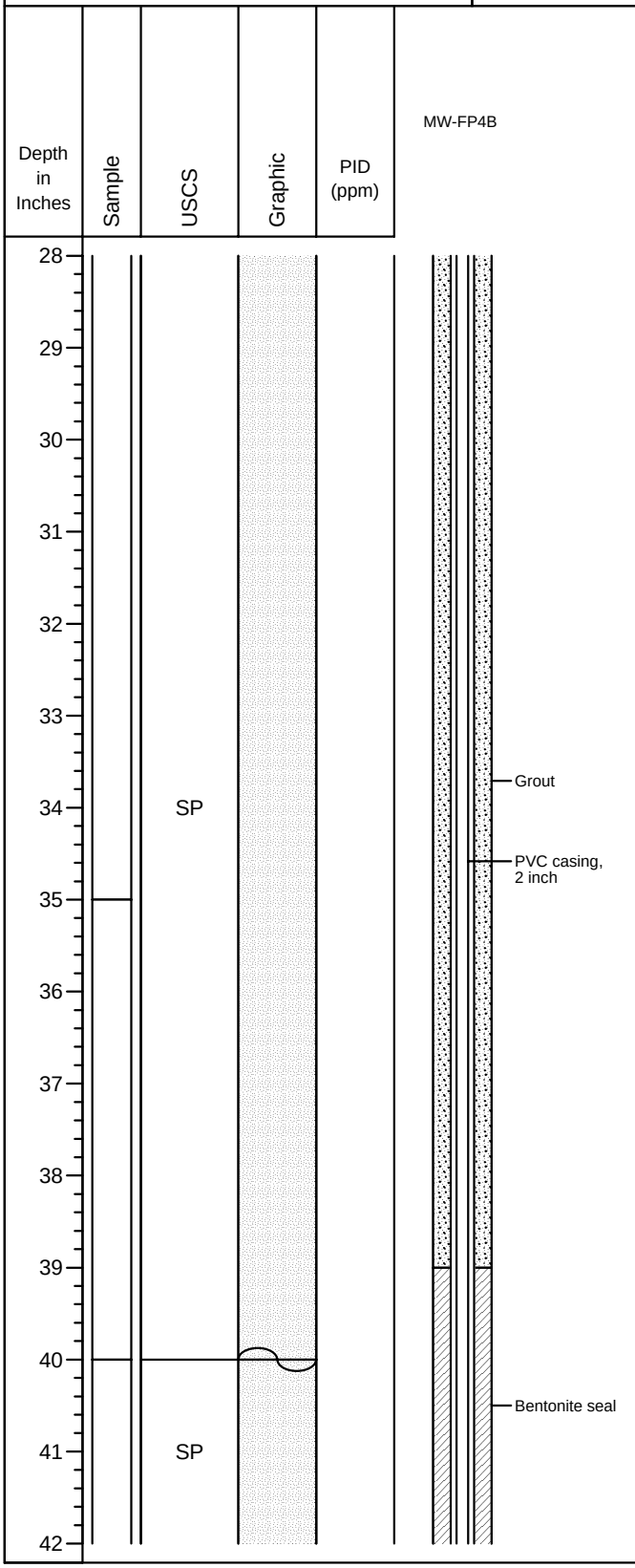
DESCRIPTION	REMARKS
	2" split spoon 3-4-6
Dark yellowish brown (10YR 4/4) SAND, some silt, fine grained, dense, wet (Merritt Sand)	2" split spoon 16-23-28
Dark olive brown (2.5YR 3/3) SAND, trace silt, fine grained, medium dense, trace oxide staining, wet (Merritt Sand)	2.5" Cal modified split spoon 16-18-20
Some interbedding of clayey sand and silty sand	Switched to 5' core barrel at 26.5'

BASELINE

LOG OF BORING: MW-FP4B

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP4B
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/2/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4



DESCRIPTION	REMARKS
	Used 5' core barrel 4' recovery
Some interbedding of clayey sand with silt	
Same as above; layers of medium dense and dense sand	2.5' recovery
Very dark grayish brown to grayish brown (2.5YR 3/2 - 4/2) SAND, fine grained, loose, wet (Merritt Sand)	3'3" recovery

BASELINE

LOG OF BORING: MW-FP4B

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP4B
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/2/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4

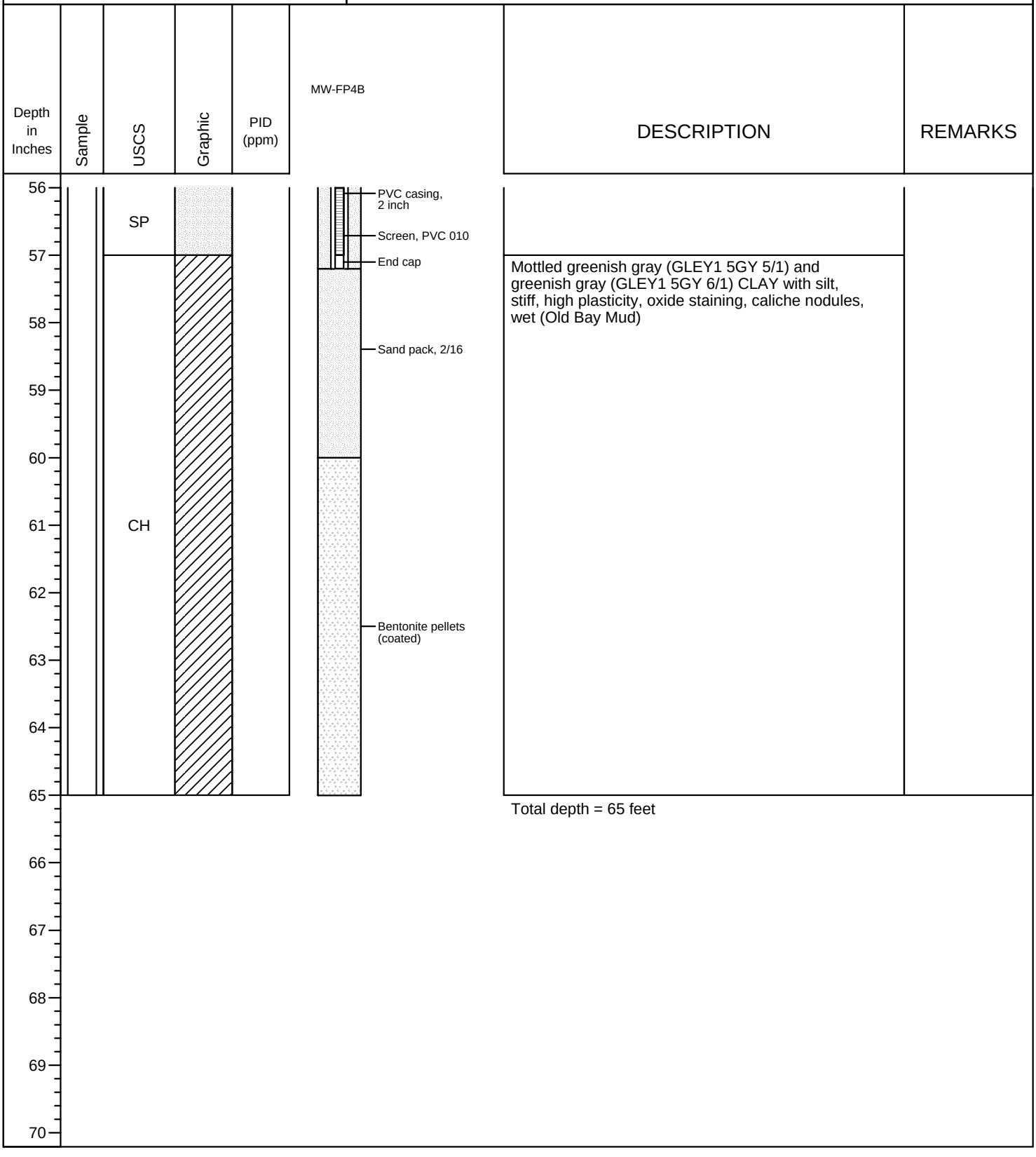
Depth in Inches	Sample	USCS	Graphic	PID (ppm)	MW-FP4B	DESCRIPTION	REMARKS
42					Bentonite seal		
43							
44							
45							3'4" recovery
46							
47							
48					PVC casing, 2 inch		
49		SP					
50							
51					Screen, PVC 010		3' recovery
52							
53							Flowing sand becoming problem inside auger Added potable water inside auger to reduce effect
54							
55							1.5' recovery
56							

BASELINE

LOG OF BORING: MW-FP4B

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP4B
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/2/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4

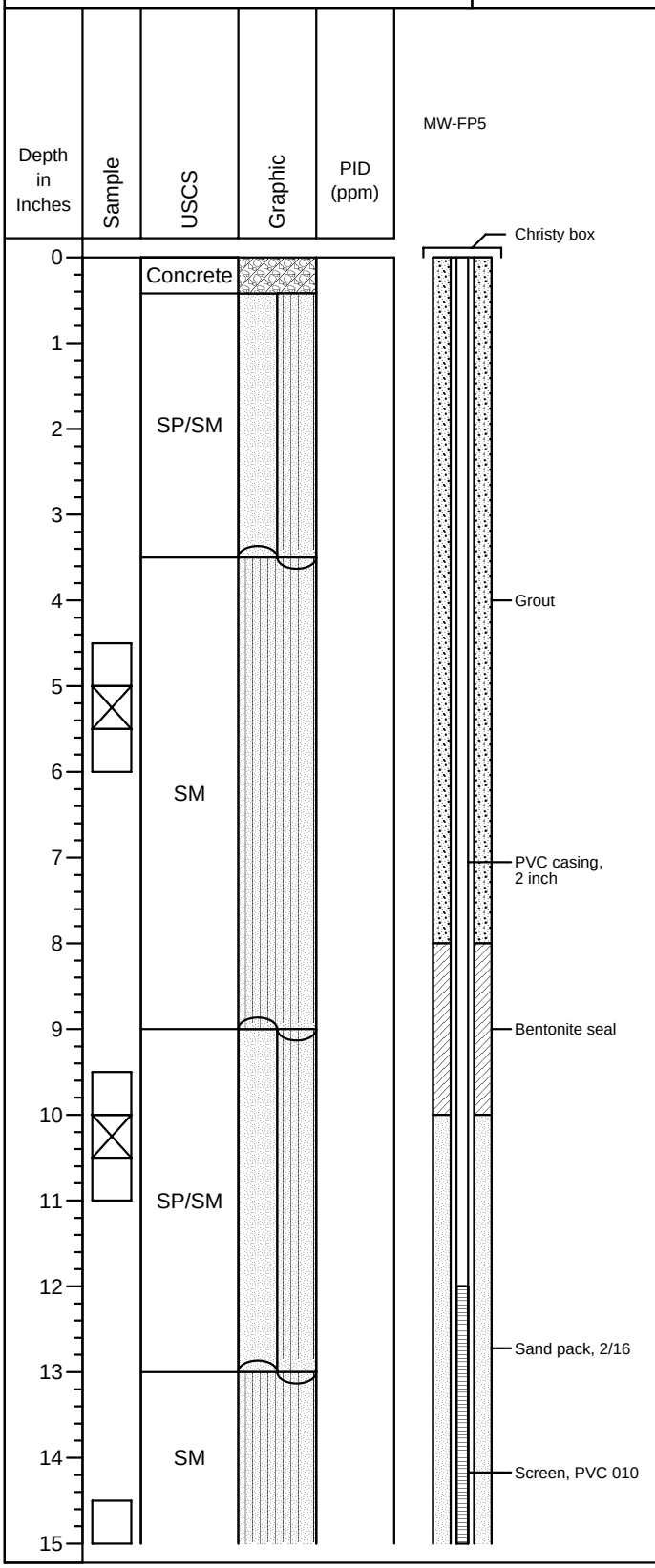


BASELINE

LOG OF BORING: MW-FP5

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP5
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/3/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4



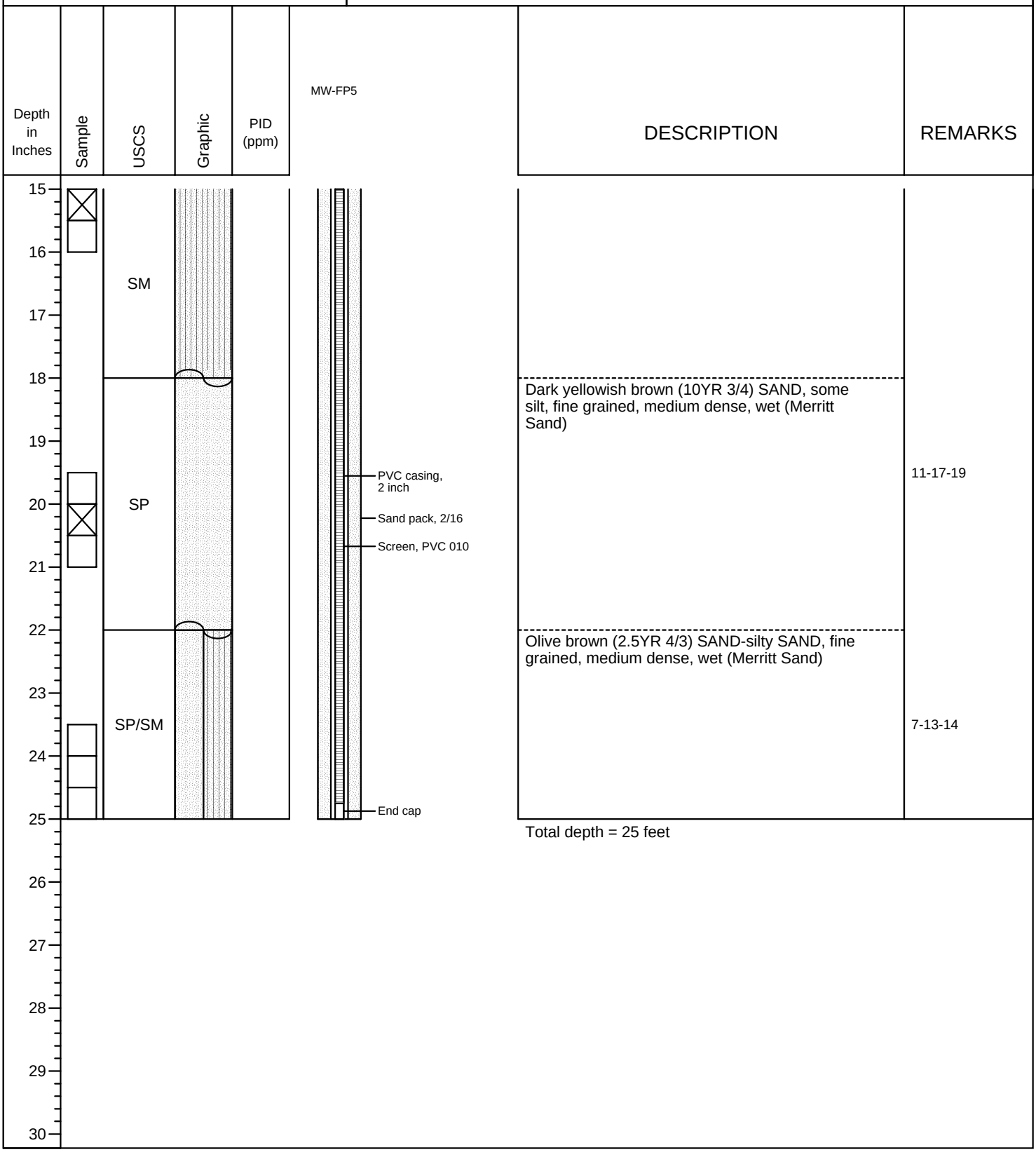
DESCRIPTION	REMARKS
Concrete slab, 5 inches	
Very dark brown (10YR 2/2) silty SAND-SAND, fine grained, brick and concrete pieces, loose, moist (Fill)	
Yellowish brown (10YR 5/4) silty SAND, fine grained, loose, oxide stained, very moist (Merritt Sand)	3-3-4
Dark yellowish brown (10YR 4/4) SAND-silty SAND, fine grained, medium dense, oxide stained, very moist (Merritt Sand)	5-7-8
Mottled dark yellowish brown (10YR 3/6) and yellowish brown (10YR 5/4) silty SAND, trace clay, medium dense, oxide stained, very moist to wet (Merritt Sand)	5-6-8

BASELINE

LOG OF BORING: MW-FP5

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP5
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 3/3/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/4

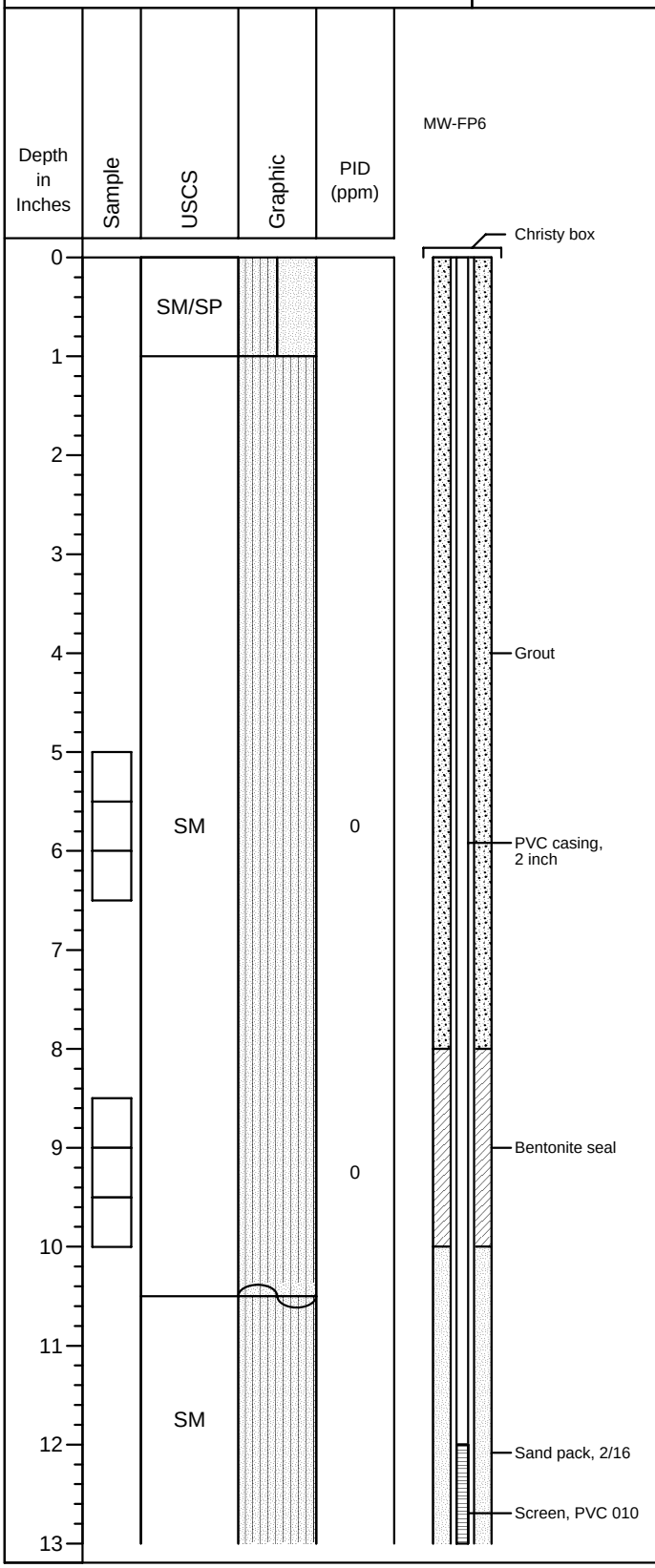


BASELINE

LOG OF BORING: MW-FP6

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP6
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 4/12/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/2



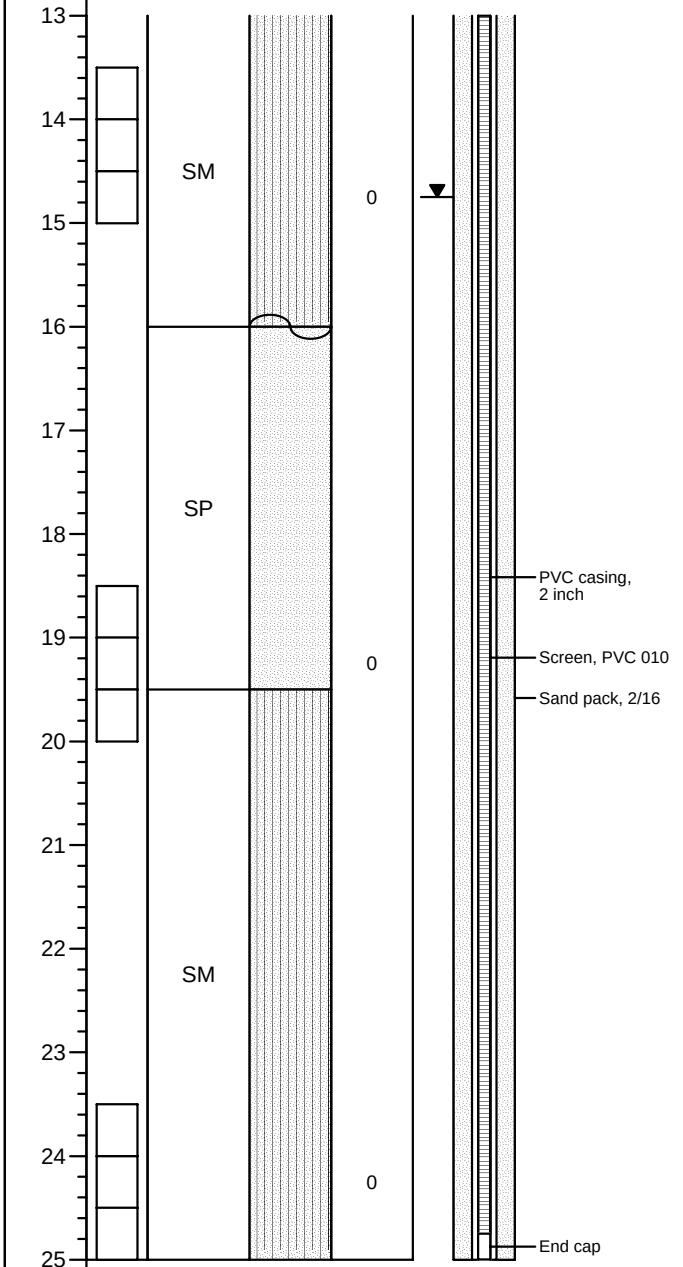
DESCRIPTION	REMARKS
Very dark brown (10YR 2/2) silty SAND-SAND, fine grained, moist (Fill)	Hand augered to 5 feet
Yellowish brown (10YR 5/4) silty SAND, fine grained, oxide stained, medium dense, very moist (Merritt Sand)	Used 2" diameter split spoon sampler 4-8-19 10-14-22
Mottled dark yellowish brown (10YR 3/6) and yellowish brown (10YR 5/4) silty SAND, trace clay, medium dense, oxide stained, very moist to wet (Merritt Sand)	

BASELINE

LOG OF BORING: MW-FP6

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP6
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 4/12/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/2



DESCRIPTION	REMARKS
	6-10-14
Dark yellowish brown (10YR 4/4) SAND, some silt, fine grained, dense, wet (Merritt Sand)	13-18-31
Dark olive brown (2.5YR 3/3) silty SAND, fine grained, medium dense, wet (Merritt Sand)	
Increase in sand content	13-22-28
Total depth = 25 feet	

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BASELINE

LOG OF BORING: MW-FP7B

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP7B
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 4/12/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/2

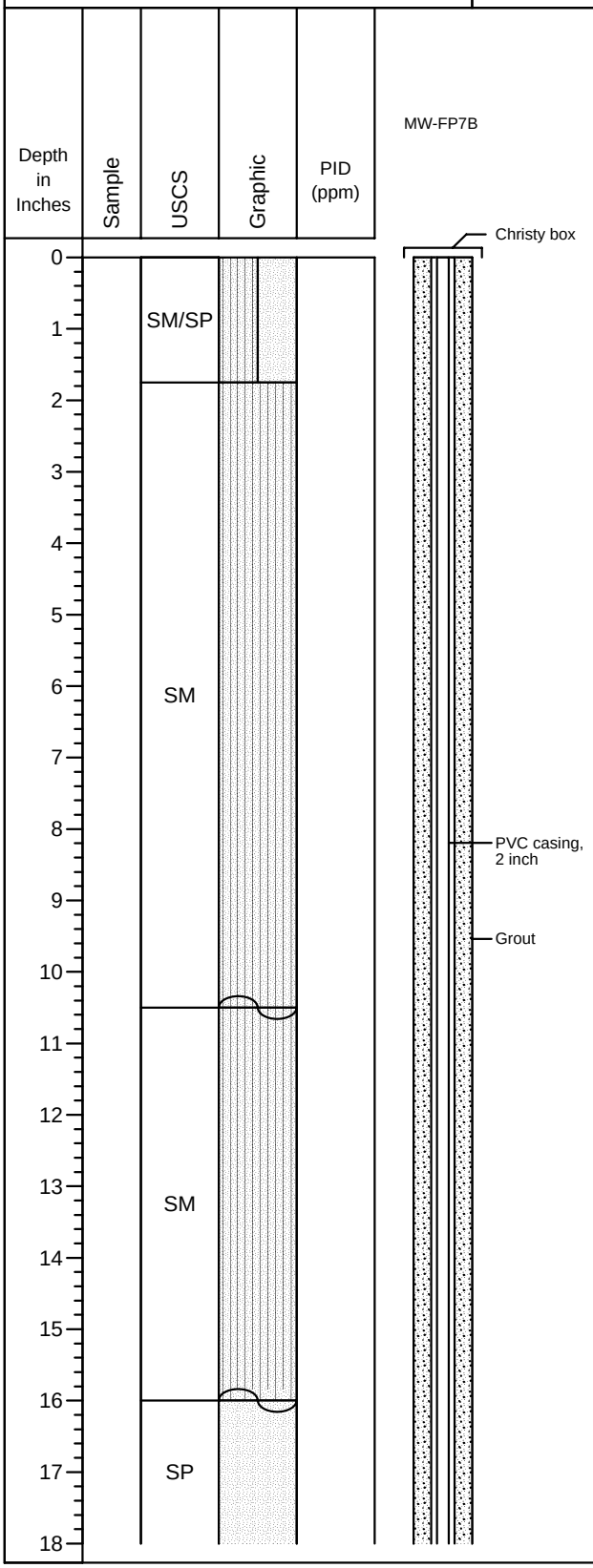
Depth in Inches	Sample	USCS	Graphic	PID (ppm)	MW-FP7B	DESCRIPTION	REMARKS
18		SP					
19							
20						Dark olive brown (2.5YR 3/3) silty SAND, fine grained, medium dense, wet (Merritt Sand)	0 PID drill cutting
21							
22							
23							
24							
25							
26					PVC casing, 2 inch		
27					Grout		
28		SM					
29							
30							0 PID drill cutting
31							
32							
33							
34							
35					Bentonite seal		
36							

BASELINE

LOG OF BORING: MW-FP7B

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP7B
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 4/12/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/2



DESCRIPTION	REMARKS
Very dark brown (10YR 2/2) silty SAND-SAND, fine grained, soft, very moist (Fill)	Hand augered to 5 feet
Yellowish brown (10YR 5/4) silty SAND, fine grained, oxide stained, medium dense, very moist (Merritt Sand)	
Mottled dark yellowish brown (10YR 3/6) and yellowish brown (10YR 5/4) silty SAND, trace clay, medium dense, oxide stained, very moist (Merritt Sand)	
Dark yellowish brown (10YR 4/4) SAND, some silt, fine grained, dense, wet (Merritt Sand)	

BASELINE

LOG OF BORING: MW-FP7B

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 751-785 Seventh St., Oakland	Boring no.	: MW-FP7B
Driller	: Gregg Drilling	Project no.	: Y0323-03
Method	: Hollow stem	Date	: 4/12/10
Logger	: WKS	Casing size	: 2 inch
Datum	: N/A	Bore size	: 8 1/2

Depth in Inches	Sample	USCS	Graphic	PID (ppm)	MW-FP7B	DESCRIPTION	REMARKS
36–54		SM		0	Bentonite seal; PVC casing, 2 inch; Screen, PVC 010; Sand pack, 2/16; End cap		Used 3" diameter, 5' long barrel sampler Flowing sands No recovery 40' to 45'; silty sand dense on tip of sampler 1 foot recovery from 45' to 50' Old Bay Mud on tip of sampler
50–51		CH				Dark greenish gray (GLEY2 10G 4/1) silty CLAY, caliche, medium to high plasticity, hard, wet (Old Bay Mud)	Used 2" diameter split spoon sampler from 50' to 51.5' 22-22-22
52						Total depth drilled = 50 feet Total depth sampled = 51.5 feet	After collecting sample from 50' to 51.5' and installing well casing, flowing sands inside auger to 47'. Pulled casing and auger to remove flowing sands, re-drilled to 50' with wood plug attached to drill bit, removed plug, and set casing

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APPENDIX C
SURVEY DATA

CSS ENVIRONMENTAL SERVICES, INC.
Managing Cost, Scope and Schedule
100 Galli Drive, Suite 1
Novato, CA 94949
Telephone: (415) 883-6203
Facsimile: (415) 883-6204

Site Positions

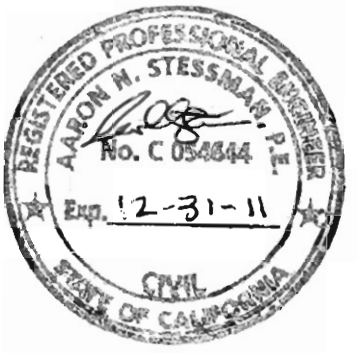
CSS Project 6633 - Baseline Environmental
751 Brush St, Oakland, CA

Horizontal Coordinate System:	North American 1983-CONUS	**Survey Date:**	04/15/10
Height System:	North American Vertical Datum 1988-Ortho. Ht. (GEOID03)		
Project file:	6626 ERS Fremont.spr		
Desired Horizontal Accuracy:	0.250Ft + 1ppm		
Desired Vertical Accuracy:	0.100Ft + 2ppm		
Confidence Level:	95% Err.		
Linear Units of Measure:	Int. Feet		

	Site ID	Site Descriptor	Position	95% Error	Fix Status
1	0875	MONUMENT HT0875	Lat. 37° 46′ 47.37890″ N	0.000	Fixed
			Lon. 122° 16′ 44.87725″ W	0.000	Fixed
			Elv. 11.970	0.000	Fixed
2	3814	MONUMENT AA3814	Lat. 37° 44′ 59.76244″ N	0.000	Fixed
			Lon. 122° 12′ 18.12186″ W	0.000	Fixed
			Elv. 11.600	0.000	Fixed
3	MW-FP1	TBM-B ON N RIM	Lat. 37° 48′ 09.02781″ N	0.174	
			Lon. 122° 16′ 55.94308″ W	0.206	
			Elv. 26.00		
		N TOC	Elv. 25.77		
4	MW-FP2	N RIM OF WELL BOX	Lat. 37° 48′ 07.22694″ N	0.033	
			Lon. 122° 16′ 53.85962″ W	0.032	
			Elv. 24.14		
		N TOC	Elv. 23.81		
5	MW-FP3	TBM-A ON N RIM	Lat. 37° 48′ 08.44796″ N	0.032	
			Lon. 122° 16′ 55.59573″ W	0.032	
			Elv. 25.95	0.071	
		N TOC	Elv. 25.66		
6	MW-FP4A	N RIM OF WELL BOX	Lat. 37° 48′ 08.16163″ N	0.033	
			Lon. 122° 16′ 56.03348″ W	0.032	
			Elv. 25.94		
		N TOC	Elv. 25.64		

CSS ENVIRONMENTAL SERVICES, INC.
Managing Cost, Scope and Schedule
100 Galli Drive, Suite 1
Novato, CA 94949
Telephone: (415) 883-6203
Facsimile: (415) 883-6204

7	MW-FP4B	N RIM OF WELL BOX	Lat.	37° 48′ 08.10626″ N	0.034
			Lon.	122° 16′ 56.06945″ W	0.032
			Elv.	25.94	
		N TOC	Elv.	25.44	
8	MW-FP5	N RIM OF WELL BOX	Lat.	37° 48′ 07.90853″ N	0.033
			Lon.	122° 16′ 55.41758″ W	0.032
			Elv.	25.92	
		N TOC	Elv.	25.69	
9	MW-FP6	N RIM OF WELL BOX	Lat.	37° 48′ 06.92465″ N	0.045
			Lon.	122° 16′ 56.23073″ W	0.056
			Elv.	21.56	
		N TOC	Elv.	21.04	
10	MW-FP7B	N RIM OF WELL BOX	Lat.	37° 48′ 07.05197″ N	0.085
			Lon.	122° 16′ 56.82023″ W	0.066
			Elv.	21.10	
		N TOC	Elv.	20.51	



NOTE: The elevation of the North Top of Casing of Shell Monitoring Well MW-9 (located near MW-FP7B) was surveyed and found to be 21.03′ in the current survey's NAVD88 datum. Its elevation has been reported by others as 18.42′ in the NGVD29 datum (from GeoTracker). When comparing groundwater elevations from your Site to the Shell Site wells, add 2.61′ to the reported Shell elevations for consistency.

APPENDIX D
WELL DEVELOPMENT FORMS

WELL DEVELOPMENT FORM

Well No.: **MW-FP1**

Project No.	Y0323-03	Recorded by: wks	Date: 03/09/10
Project Name:	Brush Street	Depth of well from TOC (feet):	25.05
Location:	751 Seventh St., Oakland, CA	Well diameter (inches):	2
		Screened interval from TOC (feet):	13-25
Weather:	Sunny, cold	TOC elevation, NAVD 88 (feet):	25.77
Precip in past 5 days (in):	0.2 Oakland North (ONO)	Groundwater elevation, NAVD 88 (feet):	10.96
		Water level from TOC (feet): 14.81	Time: 8:39
Water level instrument:	Dual-phase interface probe (Solinst)	Product level from TOC (feet): NA	Time: 8:39

CALCULATION OF WELL VOLUME:

(25.05 ft - 14.81 ft) ######### x π x 7.48 gal/ft^3 = 1.7 gallons in one casing volume

well depth - water leve x (well radius)^2 x π x gal/ft^3 = 4.5 total gallons removed

CALIBRATION:

	Time	Temp (°C)	EC (µmho/cm)	DO (%)	pH S.U.	ORP (mV)	Turbidity NTU
Calibration Standard:	--	--	1,000	100%	4.0/7.0/10.0	244	0/1.0
Before Purging:	7:30	18.4	1,000	100%	4.0/7.0/10.0	244	0/1.0
After Purging:		17.4	1,010	100%	4.0/7.0/10.1	237	0/0.95

FIELD MEASUREMENTS:

Time	Temp (°C)	EC (µmho/cm)	DO (mg/L)	pH S.U.	ORP (mV)	Turbidity NTU	Cumulative Gallons Removed
8:47	Removing sediment from bottom of well.						0.5
8:55	18.64	602	1.23	6.31	158.3	15.50	1.0
9:10	18.85	617	0.83	6.31	169.1	31.20	2.0
9:19	18.96	626	0.68	6.32	170.3	9.09	2.5
9:28	18.85	621	0.7	6.31	166.2	2.44	3.0
9:37	18.93	624	0.6	6.31	161.2	2.26	3.5
9:45	19.02	630	0.63	6.31	164.6	1.6	4.0
9:53	18.96	631	0.65	6.31	168.8	0.72	4.5

Purge method: Peristaltic Pump and new disposable poly tubing

Decontamination method:

Comments:

WELL DEVELOPMENT FORM

Well No.: **MW-FP2**

Project No.	Y0323-03	Recorded by: wks	Date: 03/09/10
Project Name:	Brush Street	Depth of well from TOC (feet):	25.03
Location:	751 Seventh St., Oakland, CA	Well diameter (inches):	2
		Screened interval from TOC (feet):	13-25
Weather:	Sunny, cold	TOC elevation, NAVD 88 (feet):	23.81
Precip in past 5 days (in):	0.2 Oakland North (ONO)	Groundwater elevation, NAVD 88 (feet):	10.61
		Water level from TOC (feet): 13.20	Time: 7:20
Water level instrument:	Dual-phase interface probe (Solinst)	Product level from TOC (feet): None	Time: 7:20

CALCULATION OF WELL VOLUME:

(25.03 ft - 13.20 ft) ######### x π x 7.48 gal/ft^3 = 1.9 gallons in one casing volume

well depth - water leve x (well radius)^2 x π x gal/ft^3 = 5.0 total gallons removed

CALIBRATION:

	Time	Temp (°C)	EC (µmho/cm)	DO (%)	pH S.U.	ORP (mV)	Turbidity NTU
Calibration Standard:	--	--	1,000	100%	4.0/7.0/10.0	244	0/1.0
Before Purging:	7:30	18.4	1,000	100%	4.0/7.0/10.0	244	0/1.0
After Purging:		17.4	1,010	100%	4.0/7.0/10.1	237	0/0.95

FIELD MEASUREMENTS:

Time	Temp (°C)	EC (µmho/cm)	DO (mg/L)	pH S.U.	ORP (mV)	Turbidity NTU	Cumulative Gallons Removed
7:36	Removing sediment from bottom of well.						0.5
7:40	18.48	526	1.86	6.57	92.0	16.70	1.0
7:48	18.49	494	1.49	6.60	108.5	7.58	2.0
7:56	18.53	496	1.38	6.60	120.8	2.58	3.0
8:04	18.60	495	1.42	6.60	128.9	1.23	4.0
8:12	18.55	494	1.44	6.60	132.5	0.70	5.0

Purge method: Peristaltic Pump and new disposable poly tubing

Decontamination method:

Comments: Replaced padlock to well cap.

WELL DEVELOPMENT FORM

Well No.: **MW-FP3**

Project No.	Y0323-03	Recorded by: wks	Date: 03/09/10
Project Name:	Brush Street	Depth of well from TOC (feet):	25.08
Location:	751 Seventh St., Oakland, CA	Well diameter (inches):	2
		Screened interval from TOC (feet):	12-25
Weather:	Sunny	TOC elevation, NAVD 88 (feet):	25.66
Precip in past 5 days (in):	0.2 Oakland North (ONO)	Groundwater elevation, NAVD 88 (feet):	10.78
		Water level from TOC (feet): 14.88	Time: 10:15
Water level instrument:	Dual-phase interface probe (Solinst)	Product level from TOC (feet): None	Time: 10:15

CALCULATION OF WELL VOLUME:

(25.08 ft - 14.88 ft) ######### x π x 7.48 gal/ft^3 = 1.7 gallons in one casing volume

well depth - water leve x (well radius)^2 x π x gal/ft^3 = 9.0 total gallons removed

CALIBRATION:

	Time	Temp (°C)	EC (µmho/cm)	DO (%)	pH S.U.	ORP (mV)	Turbidity NTU
Calibration Standard:	--	--	1,000	100%	4.0/7.0/10.0	244	0/1.0
Before Purging:	7:30	18.4	1,000	100%	4.0/7.0/10.0	244	0/1.0
After Purging:		17.4	1,010	100%	4.0/7.0/10.1	237	0/0.95

FIELD MEASUREMENTS:

	Time	Temp (°C)	EC (µmho/cm)	DO (mg/L)	pH S.U.	ORP (mV)	Turbidity NTU	Cumulative Gallons Removed
	10:17	Removing sediment from bottom of well.					VT	0.5
	10:23	Surge block					ST	1.0
	10:39						VST	4.0
	10:40	Slow pumping rate						
	11:00	0.80	1700	2.69	6.91	197.5	65.8	5.0
	11:18	0.79	1570	0.47	6.57	200.1	43.7	6.0
*	11:35	18.78	1337	0.80	6.56	201.1	68.7	7.0
	11:52	19.13	1287	0.60	6.60	204.0	18.1	8.0
	12:12	19.04	1340	0.72	6.64	205.0	6.26	9.0

VT = very tubid
ST = very tubid
VST = very slightly tubid

Purge method: Peristaltic Pump and new disposable poly tubing

Decontamination method:

Comments: * Moved pump intake from bottom to mid screen.

WELL DEVELOPMENT FORM

Well No.: **MW-FP4A**

Project No.	Y0323-03	Recorded by: wks	Date: 03/09/10
Project Name:	Brush Street	Depth of well from TOC (feet):	25.07
Location:	751 Seventh St., Oakland, CA	Well diameter (inches):	2
		Screened interval from TOC (feet):	12-25
Weather:	Sunny	TOC elevation, NAVD 88 (feet):	25.64
Precip in past 5 days (in):	0.2 Oakland North (ONO)	Groundwater elevation, NAVD 88 (feet):	10.66
		Water level from TOC (feet): 14.98	Time: 12:01
Water level instrument:	Dual-phase interface probe (Solinst)	Product level from TOC (feet): None	Time: 12:01

CALCULATION OF WELL VOLUME:

(25.07 ft - 14.98 ft)	######### x π x 7.48 gal/ft^3 =	1.6	gallons in one casing volume
well depth - water leve	x (well radius)^2 x π x gal/ft^3 =	7.5	total gallons removed

CALIBRATION:

	Time	Temp (°C)	EC (µmho/cm)	DO (%)	pH S.U.	ORP (mV)	Turbidity NTU
Calibration Standard:	--	--	1,000	100%	4.0/7.0/10.0	244	0/1.0
Before Purging:	7:30	18.4	1,000	100%	4.0/7.0/10.0	244	0/1.0
After Purging:		17.4	1,010	100%	4.0/7.0/10.1	237	0/0.95

FIELD MEASUREMENTS:

	Time	Temp (°C)	EC (µmho/cm)	DO (mg/L)	pH S.U.	ORP (mV)	Turbidity NTU	Cumulative Gallons Removed
	13:45	Removing sediment from bottom of well.						1.5
	13:55	Surge block						
*	14:05							5.0
**	14:13	17.77	3070	1.59	6.22	274	343	5.5
	14:18	17.73	3043	1.43	6.23	279	321	6.0
	14:23	17.72	3021	1.28	6.22	281	308	6.5
	14:28	17.73	3008	1.25	6.22	278	314	7.5

Purge method: Peristaltic Pump and new disposable poly tubing

Decontamination method:

Comments: * Slowed pump rate down.

** Purge water deeper yellow in color.

WELL DEVELOPMENT FORM

Well No.: **MW-FP4B**

Project No.	Y0323-03	Recorded by: wks	Date: 03/09/10
Project Name:	Brush Street	Depth of well from TOC (feet):	56.85
Location:	751 Seventh St., Oakland, CA	Well diameter (inches):	2
		Screened interval from TOC (feet):	45-57
Weather:	Sunny	TOC elevation, NAVD 88 (feet):	25.64
Precip in past 5 days (in):	0.2 Oakland North (ONO)	Groundwater elevation, NAVD 88 (feet):	10.66
		Water level from TOC (feet): 14.99	Time: 12:02
Water level instrument:	Dual-phase interface probe (Solinst)	Product level from TOC (feet): None	Time: 12:02

CALCULATION OF WELL VOLUME:

(56.85 ft - 14.99 ft)	######### x π x 7.48 gal/ft^3 =	6.8	gallons in one casing volume
well depth - water leve	x (well radius)^2 x π x gal/ft^3 =	59.2	total gallons removed

CALIBRATION:

	Time	Temp (°C)	EC (µmho/cm)	DO (%)	pH S.U.	ORP (mV)	Turbidity NTU
Calibration Standard:	--	--	1,000	100%	4.0/7.0/10.0	244	0/1.0
Before Purging:	7:30	18.4	1,000	100%	4.0/7.0/10.0	244	0/1.0
After Purging:		17.4	1,010	100%	4.0/7.0/10.1	237	0/0.95

FIELD MEASUREMENTS:

	Time	Temp (°C)	EC (µmho/cm)	DO (mg/L)	pH S.U.	ORP (mV)	Turbidity NTU	Cumulative Gallons Removed
	10:11	Removing sediment from bottom of well.					VT	
	10:50	Removing sediment from bottom of well.					VT	5.0
	11:30	Surge block					VT	10.0
*	12:07	18.38	601	1.37	7.94	71.2	166	14.0
**	12:25	18.24	594	0.97	7.98	44.9	78.4	15.0
	12:39	16.98	541	0.85	8.04	31.5	50	15.5
	14:28	16.17	549	0.90	8.04	29.2	53.7	16.0
	Purged with pump intake at top of water.							21.0
	Purge water went from yellow to clear.							39.2

3/11/2010 purged additional 20 gallons with submersible pumpset at 20 feet below top of casing, purged at approximately 1.25 gallons per minute.

Purge method: Peristaltic Pump and new disposable poly tubing

Decontamination method:

Comments: * Slowed pump rate down.

** Moved pump intake from bottom to middle of well screen.

WELL DEVELOPMENT FORM

Well No.: **MW-FP5**

Project No.	Y0323-03	Recorded by: wks	Date: 03/09/10
Project Name:	Brush Street	Depth of well from TOC (feet):	25.12
Location:	751 Seventh St., Oakland, CA	Well diameter (inches):	2
		Screened interval from TOC (feet):	12-25
Weather:	Sunny	TOC elevation, NAVD 88 (feet):	25.69
Precip in past 5 days (in):	0.2 Oakland North (ONO)	Groundwater elevation, NAVD 88 (feet):	10.69
		Water level from TOC (feet): 15.00	Time: 11:59
Water level instrument:	Dual-phase interface probe (Solinst)	Product level from TOC (feet): None	Time: 11:59

CALCULATION OF WELL VOLUME:

(25.12 ft - 15.00 ft)	######### x π x 7.48 gal/ft^3 =	1.7	gallons in one casing volume
well depth - water leve	x (well radius)^2 x π x gal/ft^3 =	30.5	total gallons removed

CALIBRATION:

	Time	Temp (°C)	EC (µmho/cm)	DO (%)	pH S.U.	ORP (mV)	Turbidity NTU
Calibration Standard:	--	--	1,000	100%	4.0/7.0/10.0	244	0/1.0
Before Purging:	7:30	18.4	1,000	100%	4.0/7.0/10.0	244	0/1.0
After Purging:		17.4	1,010	100%	4.0/7.0/10.1	237	0/0.95

FIELD MEASUREMENTS:

	Time	Temp (°C)	EC (µmho/cm)	DO (mg/L)	pH S.U.	ORP (mV)	Turbidity NTU	Cumulative Gallons Removed
	12:22	Removing sediment from bottom of well.					VT	0.5
	12:34	Surge block					VT	3.0
	12:40	Surge block					VT	4.0
*, **	12:51						VST	7.0
**	13:08	16.81	1136	2.98	7.25	192	291	8.0
**	13:28	16.95	1165	3.26	7.24	199	265	9.0
**	13:38	16.88	1193	2.76	7.22	197	154	9.5
	13:48	16.97	1210	2.80	7.22	194	78.6	10.0
	13:58	16.98	1226	2.92	7.22	190	71.0	10.5
	14:18	16.81	1241	2.84	7.21	188	71.4	11.5

Purge method: Peristaltic Pump and new disposable poly tubing

Decontamination method:

Comments: * Slowed pump rate down.

** Purge water yellow in color.

WELL DEVELOPMENT FORM

Well No.: **MW-FP6**

Project No.	Y0323-03	Recorded by: wks	Date: 04/14/10
Project Name:	Brush Street	Depth of well from TOC (feet):	24.68
Location:	751 Seventh St., Oakland, CA	Well diameter (inches):	2
		Screened interval from TOC (feet):	12-25
Weather:	Sunny	TOC elevation, NAVD 88 (feet):	21.04
Precip in past 5 days (in):	0.2 Oakland North (ONO)	Groundwater elevation, NAVD 88 (feet):	10.06
		Water level from TOC (feet): 10.98	Time: 7:00
Water level instrument:	Dual-phase interface probe (Solinst)	Product level from TOC (feet): None	Time: 7:00

CALCULATION OF WELL VOLUME:

(24.68 ft - 10.98 ft) ######### x π x 7.48 gal/ft^3 =	2.2	gallons in one casing volume
well depth - water leve x (well radius)^2 x π x gal/ft^3 =	19	total gallons removed

CALIBRATION:

	Time	Temp (°C)	EC (µmho/cm)	DO (%)	pH S.U.	ORP (mV)	Turbidity NTU
Calibration Standard:	--	--	--	--	--	--	--
Before Purging:	--	--	--	--	--	--	--
After Purging:	--	--	--	--	--	--	--

FIELD MEASUREMENTS:

Time	Temp (°C)	EC (µmho/cm)	DO (mg/L)	pH S.U.	ORP (mV)	Turbidity NTU	Cumulative Gallons Removed
7:00	Removing sediment from bottom of well.						
7:10	Surge block						2.0
7:30	18.17	2353	1.15	6.76	47.2	342	5.0
7:37	18.34	2197	0.95	6.73	44.4	250	8.0
7:58	18.44	2001	0.6	6.66	66.2	123	13
8:14	18.40	1916	0.56	6.63	80.9	38.2	16
8:30	18.41	1841	0.52	6.60	92.3	17.5	19

Purge method: Peristaltic Pump and new disposable poly tubing

Decontamination method:

Comments:

WELL DEVELOPMENT FORM

Well No.: **MW-FP7B**

Project No.	Y0323-03	Recorded by: wks	Date: 03/09/10
Project Name:	Brush Street	Depth of well from TOC (feet):	49.04
Location:	751 Seventh St., Oakland, CA	Well diameter (inches):	2
		Screened interval from TOC (feet):	39-49
Weather:	Sunny	TOC elevation, NAVD 88 (feet):	20.51
Precip in past 5 days (in):	0.2 Oakland North (ONO)	Groundwater elevation, NAVD 88 (feet):	10.02
		Water level from TOC (feet): 10.49	Time: 9:13
Water level instrument:	Dual-phase interface probe (Solinst)	Product level from TOC (feet): None	Time: 9:13

CALCULATION OF WELL VOLUME:

(49.04 ft - 10.49 ft) ######### x π x 7.48 gal/ft^3 =	6.3	gallons in one casing volume
well depth - water leve x (well radius)^2 x π x gal/ft^3 =	20.0	total gallons removed

CALIBRATION:

	Time	Temp (°C)	EC (µmho/cm)	DO (%)	pH S.U.	ORP (mV)	Turbidity NTU
Calibration Standard:	--	--	--	--	--	--	--
Before Purging:	--	--	--	--	--	--	--
After Purging:	--	--	--	--	--	--	--

FIELD MEASUREMENTS:

Time	Temp (°C)	EC (µmho/cm)	DO (mg/L)	pH S.U.	ORP (mV)	Turbidity NTU	Cumulative Gallons Removed
9:30	Removing sediment from bottom of well.						3.0
9:54	Surge block						4.0
10:15	19.82	910	1.58	7.54	-13.2	135	10
10:30	19.72	628	1.07	7.35	-78.0	30.9	18
10:37	19.52	572	1.11	7.33	-74	10.46	22
10:45	19.57	540	0.98	7.31	-72	9.76	26
10:53	19.54	512	0.94	7.31	-71.4	6.48	30
11:04	19.52	505	1.08	2.29	-71.4	3.95	35

Purge method: Peristaltic Pump and new disposable poly tubing

Decontamination method:

Comments: * Slowed pump rate down.

** Purge water yellow in color.

APPENDIX E
GROUNDWATER SAMPLING FORMS

GROUNDWATER SAMPLING

Well No.: MW-FP1

Project No.	Y0323-03	Well screened interval (feet) BTOC:	13	25.0	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :	19.9		Depth of well (feet) BTOC: 25.1
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :	5.1		Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):	0.17 inches		
Weather:	Sunny	Water Level from (feet) BTOC:	14.82		Time: 7:06
Precip. in past 5 days (inches):	1.36	1/4-inch OD tubing =	0.17 inch ID		
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =	0.25 inch ID		

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

19.9 ft. (min. tubing length (ft.)) x (0.00708 ft)^2 (tubing diameter (ft.)) x π x 28.32 liters/ft^3 + 1.0 L (flow cell vol (L)) = 1.09 liters of water in tubing; 4.0 total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	7:30	14:40	- -
Temp (°C):	13.45	20.21	- -
DO	100%	98%	100% 0^2 saturated
NTU:	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	248
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000 (µmho/cm):

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	NTU	Cumulative Purge Vol. Removed (L)	Temp (°C)
0805	14.95	--	6.34	538	231	1.54	4.98	1.0	17.41
0810	14.98	0.20	6.34	547	220	1.44	4.88	2.0	17.85
0815	14.98	0.20	6.34	545	211	1.34	4.05	3.0	18.17
0820	14.98	0.20	6.34	550	207	1.31	2.61	4.0	18.42

Laboratory: Curtis & Tompkins Ltd

Appearance of sample: Clear — Sample Time: 8:30

Duplicate/blank number: None — Time: - -

Rinsate disposal: 55-gallon drum temporarily stored on site

Sampling equipment: Peristaltic Pump with new disposable poly tubing — Sample analyses: VOCs, Title 22 metals, Cr VI

Sample containers: 3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly — Decon method: ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

GROUNDWATER SAMPLING

Well No.: MW-FP2

Project No.	Y0323-03	Well screened interval (feet) BTOC:	13	25.0	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :	19.0		Depth of well (feet) BTOC: 25.0
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :	6.0		Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):	0.17	inches	
Weather:	Sunny	Water Level from (feet) BTOC:	13.19		Time: 6:59
Precip. in past 5 days (inches):	1.36	1/4-inch OD tubing =	0.17 inch ID		
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =	0.25 inch ID		

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

19.0 ft. (min. tubing length (ft.)) x (0.00708 ft)^2 (tubing radius (ft.)) x π x 28.32 liters/ft^3 + 1.0 L (flow cell vol (L)) = 1.08 liters of water in tubing

8.0 total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	7:30	14:40	- -
Temp (°C):	13.45	20.21	- -
DO (%)	100%	98%	100% 0^2 saturated
Turbidity (NTU):	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	244
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	Turbidity (NTU):	Cumulative Purge Vol. Removed (L)	Temperature (^{0}C):
1249	13.25	--	6.82	542	98	2.26	2.96	1.0	20.69
1301	13.25	0.17	6.65	526	104	1.91	2.00	3.0	20.68
1310	13.26	0.11	6.63	522	101	1.88	1.65	4.0	21.06
1316	13.26	0.17	6.61	521	95	1.83	1.39	5.0	21.27
1322	13.26	0.17	6.62	520	93	1.73	1.53	6.0	21.45
1328	13.26	0.17	6.63	523	89	1.68	1.10	7.0	21.53
1334	13.26	0.17						8.0	

Laboratory: Curtis & Tompkins Ltd

Appearance of sample:	Clear	Sample Time:	8:34		
Duplicate/blank number:	None	Time:	- -	Rinsate disposal:	55-gallon drum temporarily stored on site
Sampling equipment:	Peristaltic Pump with new disposable poly tubing	Sample analyses:	VOCs, Title 22 metals, Cr VI		
		Sample containers:	3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly	Decon method:	ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

GROUNDWATER SAMPLING

Well No.: MW-FP3

Project No.	Y0323-03	Well screened interval (feet) BTOC:	12	25.0	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :		19.9	Depth of well (feet) BTOC: 25.1
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :		5.1	Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):		0.17 inches	
Weather:	Sunny	Water Level from (feet) BTOC:		14.82	Time: 7:09
Precip. in past 5 days (inches):	1.36	1/4-inch OD tubing =		0.17 inch ID	
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =		0.25 inch ID	

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

19.9 ft. (min. tubing length (ft.)) x (0.00708 ft)^2 (tubing radius (ft.)) x π x 28.32 liters/ft^3 + 1.0 L (flow cell vol (L)) = 1.09 liters of water in tubing

8.0 total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	7:30	14:40	- -
Temp (°C):	13.45	20.21	- -
DO (%)	100%	98%	100% 0^2 saturated
Turbidity (NTU):	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	244
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	Turbidity (NTU):	Cumulative Purge Vol. Removed (L)	Temperature (^{0}C):
0807	15.04	--	6.45	1,170	239	1.97	7.22	1.0	16.86
0816	15.08	0.19	6.33	1,131	221	1.94	5.57	2.8	17.52
0828	15.10	0.10	6.40	1,132	206	2.68	4.66	4.0	17.57
0834	15.11	0.17	6.51	1,153	196	2.49	5.02	5.0	17.71
0840	15.12	0.17	6.47	1,152	161	1.79	4.69	6.0	17.84
0846	15.12	0.17	6.45	1,150	147	1.46	4.47	7.0	17.89
0852	15.13	0.17	6.44	1,145	145	2.41	3.60	8.0	17.97

Laboratory: Curtis & Tompkins Ltd

Appearance of sample: Clear

Sample Time: 9:00

Duplicate/blank number: None

Time: - -

Rinsate disposal: 55-gallon drum temporarily stored on site

Sampling equipment: Peristaltic Pump with new disposable poly tubing

Sample analyses: VOCs, Title 22 metals, Cr VI

Sample containers: 3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly

Decon method: ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

GROUNDWATER SAMPLING

Well No.: MW-FP4A

Project No.	Y0323-03	Well screened interval (feet) BTOC:	12	25.0	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :		20.0	Depth of well (feet) BTOC: 25.1
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :		5.0	Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):		0.17 inches	
Weather:	Sunny	Water Level from (feet) BTOC:		15.01	Time: 7:14
Precip. in past 5 days (inches):	1.36	1/4-inch OD tubing =	0.17 inch ID		
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =	0.25 inch ID		

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

20.0 ft. (min. tubing length (ft.)) x (0.00708 ft)^2 (tubing radius (ft.)) x π x 28.32 liters/ft^3 + 1.0 L (flow cell vol (L)) = 1.09 liters of water in tubing; 4.0 total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	7:30	14:40	- -
Temp (°C):	13.45	20.21	- -
DO (%)	100%	98%	100% 0^2 saturated
Turbidity (NTU):	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	244
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	Turbidity (NTU):	Cumulative Purge Vol. Removed (L)	Temperature (^{0}C):
14:11	15.05	--	6.00	2,754	240	1.25	12.50	1.0	19.66
1416	15.05	0.00	5.99	2,745	253	1.32	12.00	2.0	19.7
1421	15.05	0.20	5.99	2,744	258	1.38	10.67	3.0	19.72
1426	15.05	0.20	5.99	2,731	266	1.29	10.29	4.0	19.72

Laboratory: Curtis & Tompkins Ltd

Appearance of sample: yellow — Sample Time: 14:35

Duplicate/blank number: None — Time: - -

Rinsate disposal: 55-gallon drum temporarily stored on site

Sampling equipment: Peristaltic Pump with new disposable poly tubing

Sample analyses: VOCs, Title 22 metals, Cr VI

Sample containers: 3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly

Decon method: ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

GROUNDWATER SAMPLING

Well No.: MW-FP4B

Project No.	Y0323-03	Well screened interval (feet) BTOC:	45	57.0	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :		51.0	Depth of well (feet) BTOC: 56.9
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :		6.0	Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):		0.25 inches	
Weather:	Sunny	Water Level from (feet) BTOC:		14.92	Time: 7:11
Precip. in past 5 days (inches)	1.36	1/4-inch OD tubing =		0.17 inch ID	
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =		0.25 inch ID	

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

51.0 ft. (min. tubing length (ft.)) x (0.00708 ft)^2 (tubing diameter (ft.)) x π x 28.32 liters/ft^3 + 1.0 L (flow cell vol (L)) = 1.49 liters of water in tubing; 7.0 total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	7:30	14:40	- -
Temp (°C):	13.45	20.21	- -
DO	100%	98%	100% 0^2 saturated
NTU:	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	244
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000 (µmho/cm):

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	NTU	Cumulative Purge Vol. Removed (L)	Temp (°C)
1340	14.98	--	9.06	324	3	0.35	26.70	3.0	18.6
1346	15.12	0.17	9.01	319	-11	0.31	25.30	4.0	18.69
1352	15.38	0.17	9.00	319	-26	0.35	21.30	5.0	18.7
1359	15.38	0.14	9.00	321	-29	0.42	17.60	6.0	18.66
1405	15.38	0.17	9.00	322	-34	0.39	16.80	7.0	18.63

Laboratory: Curtis & Tompkins Ltd

Appearance of sample: Clear — Sample Time: 14:10

Duplicate/blank number: None — Time: - -

Rinsate disposal: 55-gallon drum temporarily stored on site

Sampling equipment: Peristaltic Pump with new disposable poly tubing

Sample analyses: VOCs, Title 22 metals, Cr VI

Sample containers: 3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly

Decon method: ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

GROUNDWATER SAMPLING

Well No.: MW-FP5

Project No.	Y0323-03	Well screened interval (feet) BTOC:	12	25.0	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :		20.0	Depth of well (feet) BTOC: 25.1
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :		5.0	Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):		0.17 inches	
Weather:	Sunny	Water Level from (feet) BTOC:		15.01	Time: 7:13
Precip. in past 5 days (inches):	1.36	1/4-inch OD tubing =	0.17 inch ID		
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =	0.25 inch ID		

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

20.0 ft. (min. tubing length (ft.)) x (0.00708 ft)^2 (tubing diameter (ft.)) x π x 28.32 liters/ft^3 + 1.0 L (flow cell vol (L)) = 1.09 liters of water in tubing; 5.5 total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	7:30	14:40	- -
Temp (°C):	13.45	20.21	- -
DO	100%	98%	100% 0^2 saturated
NTU:	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	244
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000 (µmho/cm):

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	NTU	Cumulative Purge Vol. Removed (L)	Temp (°C)
1224	15.08	--	7.07	776	80	6.49	57.80	1.5	19.20
1232	15.08	0.13	7.07	794	89	5.99	58.40	2.5	19.21
1240	15.08	0.13	7.06	794	97	6.12	46.56	3.5	19.41
1248	15.09	0.13	7.06	794	100	6.11	45.23	4.5	19.46
1256	15.09	0.13	7.07	786	105	6.46	42.30	5.5	19.50

Laboratory: Curtis & Tompkins Ltd

Appearance of sample: Clear

Sample Time: 13:00

Duplicate/blank number: None

Time: - -

Rinsate disposal: 55-gallon drum temporarily stored on site

Sampling equipment: Peristaltic Pump with new disposable poly tubing

Sample analyses: VOCs, Title 22 metals, Cr VI

Sample containers: 3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly

Decon method: ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

GROUNDWATER SAMPLING

Well No.: MW-FP6

Project No.	Y0323-03	Well screened interval (feet) BTOC:	12	25.0	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :		18.5	Depth of well (feet) BTOC: 25.1
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :		6.5	Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):		0.17 inches	
Weather:	Sunny	Water Level from (feet) BTOC:		10.98	Time: 7:04
Precip. in past 5 days (inches)	1.36	1/4-inch OD tubing =		0.17 inch ID	
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =		0.25 inch ID	

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

18.5 ft. (min. tubing length (ft.)) x (0.00708 ft)^2 (tubing diameter (ft.)) x π x 28.32 liters/ft^3 + 1.0 L (flow cell vol (L)) = 1.08 liters of water in tubing; 8.0 total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	7:30	14:40	- -
Temp (°C):	13.45	20.21	- -
DO	100%	98%	100% 0^2 saturated
NTU:	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	244
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000 (µmho/cm):

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	NTU	Cumulative Purge Vol. Removed (L)	Temp (°C)
1105	11.21	--	6.84	2,140	62	0.52	3.55	2.5	19.78
1115	11.21	0.25	6.67	1,990	65	0.45	2.89	5.0	19.90
1120	11.23	0.20	6.66	1,942	69	0.43	2.69	6.0	20.02
1125	11.23	0.20	6.64	1,910	68	0.43	2.56	7.0	20.09
1130	11.23	0.20	6.63	1,905	75	0.43	2.67	8.0	20.20

Laboratory: Curtis & Tompkins Ltd

Appearance of sample: Clear — Sample Time: 11:35

Duplicate/blank number: None — Time: - -

Rinsate disposal: 55-gallon drum temporarily stored on site

Sampling equipment: Peristaltic Pump with new disposable poly tubing

Sample analyses: VOCs, Title 22 metals, Cr VI

Sample containers: 3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly

Decon method: ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

GROUNDWATER SAMPLING

Well No.: MW-FP7B

Project No.	Y0323-03	Well screened interval (feet) BTOC:	39	49.0	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :		44.0	Depth of well (feet) BTOC: 49.0
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :		5.0	Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):		0.25 inches	
Weather:	Sunny	Water Level from (feet) BTOC:		10.48	Time: 7:07
Precip. in past 5 days (inches)	1.36	1/4-inch OD tubing =	0.17 inch ID		
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =	0.25 inch ID		

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

44.0 ft. (min. tubing length (ft.)) x (0.00708 ft)^2 (tubing radius (ft.)) x π x 28.32 liters/ft^3 + 1.0 L (flow cell vol (L)) = 1.42 liters of water in tubing; 20.0 total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	7:30	14:40	- -
Temp (°C):	13.45	20.21	- -
DO (%)	100%	98%	100% 0^2 saturated
Turbidity (NTU):	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	244
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	Turbidity (NTU):	Cumulative Purge Vol. Removed (L)	Temperature (^{0}C):
1054	10.63	--	7.50	580	-83	1.12	9.91	1.0	20.85
1108	10.63	0.29	7.39	606	-74	0.71	5.78	5.0	20.33
1119	10.63	0.27	7.31	635	-91	0.63	3.57	8.0	20.18
1127	10.63	0.25	7.38	585	-96	0.81	3.58	10.0	20.21
1135	10.62	0.38	7.45	549	-98	0.99	3.13	13.0	20.72
1140	10.61	0.20	7.42	561	-100	0.50	2.99	14.0	20.63
1143	10.59	0.33	7.41	569	-104	0.36	2.48	15.0	20.68
1147	10.59	0.25	7.39	570	-108	0.30	2.99	16.0	20.95
1151	10.59	0.25	7.40	571	-114	0.28	2.32	17.0	20.99
1155	10.59	0.25	7.39	572	-115	0.34	2.55	18.0	20.99
1159	10.59	0.25	7.39	573	-126	0.35	2.32	19.0	21.00
1203	10.59	0.25	7.38	578	-126	0.33	2.45	20.0	21.14

Laboratory: Curtis & Tompkins Ltd

Appearance of sample:	light yellow	Sample Time:	12:13		
Duplicate/blank number:	None	Time:	- -	Rinsate disposal:	55-gallon drum temporarily stored on site
Sampling equipment:	Peristaltic Pump with new disposable poly tubing	Sample analyses:	VOCs, Title 22 metals, Cr VI		
		Sample containers:	3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly	Decon method:	ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

GROUNDWATER SAMPLING

Well No.: MW-3 (Shell)

Project No.	Y0323-03	Well screened interval (feet) BTOC:	10	18.4	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :		14.2	Depth of well (feet) BTOC: 18.4
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :		4.2	Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):		0.17 inches	
Weather:	Sunny	Water Level from (feet) BTOC:		11.00	Time:
Precip. in past 5 days (inches):	1.36	1/4-inch OD tubing =	0.17 inch ID		
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =	0.25 inch ID		

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

14.2 ft.	x (0.00708 ft)^2 x π x 28.32 liters/ft^3 + 1.0 L =	1.06	liters of water in tubing	
min. tubing length (ft.)	tubing radius (ft.)	flow cell vol (L)	6.0	total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	10:10	14:40	- -
Temp (°C):	13.45	20.21	- -
DO (%)	100%	98%	100% 0^2 saturated
Turbidity (NTU):	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	244
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	Turbidity (NTU):	Cumulative Purge Vol. Removed (L)	Temperature (^{0}C):
0923	10.90	--	6.33	327	-127	1.04	1.92	1.0	18.16
0929	11.02	0.17	6.32	316	-108	0.59	2.23	2.0	18.34
0936	11.18	0.14	6.32	329	-110	0.45	2.45	3.0	18.58
0943	11.24	0.14	6.48	346	-101	0.54	1.64	4.0	18.67
0949	11.31	0.17	6.33	332	-116	0.52	1.50	5.0	18.64
0955	11.40	0.17	6.33	356	-116	0.60	1.54	6.0	18.76

Laboratory: Curtis & Tompkins Ltd

Appearance of sample:	Clear	Sample Time:	10:10		
Duplicate/blank number:	None	Time:	- -	Rinsate disposal:	55-gallon drum temporarily stored on site
Sampling equipment:	Peristaltic Pump with new disposable poly tubing	Sample analyses:	VOCs, Title 22 metals, Cr VI		
		Sample containers:	3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly	Decon method:	ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

GROUNDWATER SAMPLING

Well No.: MW-9 (Shell)

Project No.	Y0323-03	Well screened interval (feet) BTOC:	10	18.4	Date: 4/15/2010
Project name:	Brush St.	Tube inlet placed at (feet) BTOC :		14.2	Depth of well (feet) BTOC: 19.7
Location:	751-758 Brush St.	Tube inlet (feet) ABOW :		4.2	Well diameter (inches): 2
Sampled and Recorded by:	RR & WKS	Discharge Tubing Used (ID):		0.17 inches	
Weather:	Sunny	Water Level from (feet) BTOC:		10.98	Time: 9:13
Precip. in past 5 days (inches):	1.36	1/4-inch OD tubing =	0.17 inch ID		
Water Level Instrument:	Solinst Model 122, s/n 001654-1	3/8-inch OD tubing =	0.25 inch ID		

CALCULATION OF THE WATER VOLUME CONTAINED WITHIN THE LOW-FLOW SYSTEM

14.2 ft. (min. tubing length (ft.)) x (0.00708 ft)^2 (tubing diameter (ft.)) x π x 28.32 liters/ft^3 + 1.0 L (flow cell vol (L)) = 1.06 liters of water in tubing; 13.5 total liters removed

CALIBRATION	Before Purging	After Purging	Standard
Time:	7:30	14:40	- -
Temp (°C):	13.45	20.21	- -
DO	100%	98%	100% 0^2 saturated
NTU:	0.0 / 9.7	0.0 / 10.82	0.0 / 10.0
ORP (mV):	248 @ 13.5	235 @ 20.2	244
pH:	4.0/7.0/10.0	4.10/7.07/9.97	4.0/7.0/10.0
E C (µmho/cm):	1,000 (µmho/cm):	940 (µmho/cm):	1,000 (µmho/cm):

FIELD MEASUREMENTS

Time	Water Level from TOC (ft.)	Purge Rate (L / min)	pH	EC (µmho/cm):	ORP (mV):	DO (mg/l):	NTU	Cumulative Purge Vol. Removed (L)	Temp (°C)
0930	11.04	--	6.55	857	34	0.97	3.22	1.5	17.45
0940	11.12	0.20	6.55	877	37	1.00	3.14	3.5	17.44
0950	11.19	0.20	6.54	890	44	1.22	2.15	5.5	17.82
1000	11.21	0.20	6.55	880	52	0.99	2.07	7.5	17.88
1010	11.22	0.20	6.54	984	87	0.34	3.36	9.5	17.88
1015	11.22	0.20	6.53	998	93	0.29	1.68	10.5	17.85
1020	11.22	0.20	6.52	1,038	96	0.31	1.59	11.5	17.96
1025	11.22	0.20	6.51	1,047	106	0.31	1.23	12.5	17.98
1030	11.22	0.20	6.51	1,052	110	0.31	1.20	13.5	18.01

Laboratory: Curtis & Tompkins Ltd

Appearance of sample:	Clear	Sample Time:	10:35		
Duplicate/blank number:	None	Time:	- -	Rinsate disposal:	55-gallon drum temporarily stored on site
Sampling equipment:	Peristaltic Pump with new disposable poly tubing	Sample analyses:	VOCs, Title 22 metals, Cr VI		
		Sample containers:	3-40 ml VOA's, 1-500 ml poly, 1-250 ml poly	Decon method:	ASTM 5088-02, (three bucket wash)

BTOC= below top of casing bgs= below ground surface ABOW= above bottom of well

BASELINE QA/QC Peer Review Completed: _____(initial, date)

APPENDIX F
LABORATORY ANALYTICAL REPORTS

(ON CD-ROM IN PORTABLE DOCUMENT FORMAT)
C&T Laboratory Report No. 218575
C&T Laboratory Report No. 219511
Cooper Testing Report 360-062

QUALITY CONTROL CHECKLIST
FOR REVIEW OF LABORATORY REPORT

Job No.	Y0323-03	**Site:**	751-785 7th St
Laboratory:	Curtis and Tompkins, Ltd.	**Laboratory Report No.:**	218575
Report Date:	17 March 2010	**BASELINE Reviewer:**	JM

	Yes	No	NA
GENERAL QUESTIONS **(Describe "no" responses below in "comments" section. Contact the laboratory, as required, for further explanation or action on "no" responses; document discussion in comments section.)**			
1a. Does the report include a case narrative? *(A case narrative MUST be prepared by the lab for all analytical work requested by BASELINE)*	X		
1b. Is the number of pages for the lab report as indicated on the case narrative/lab transmittal consistent with the number of pages that are included in report?	X		
1c. Does the case narrative indicate which samples were analyzed by a subcontractor and the subcontractor's name?			X
1d. Does the case narrative summarize subsequent requests not shown on the chain-of-custody (e.g., additional analyses requested, release of "hold" samples)?			X
1e. Does the case narrative explain why requested analyses could not be performed by laboratory (e.g., insufficient sample)?			X
1f. Does the case narrative explain all problems with the QA/QC data as identified in the checklist (as applicable)?			X
2a. Is the laboratory report format consistent and legible throughout the report?	X		
2b. Are the sample and reported dates shown in the laboratory report correct?	X		
3a. Does the lab report include an original copy of the chain-of-custody form?	X		
3b. Were all samples appropriately analyzed as requested on the chain-of-custody form?	X		
4. Was the lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel? (Some lab reports have signature spaces for each page). (This requirement also applies to any analyses subcontracted out by the laboratory)	X		
5a. Are preparation methods, cleanup methods (if applicable), and laboratory methods indicated for all analyses?	X		
5b. If additional analytes were requested as part of the reporting of the data for an analytical method, were these included in the lab report?			X
6. Are the units in the lab report provided for each analysis consistent throughout the report?	X		
7. Are the detection limits (DL) appropriate based on the intended use of the data (e.g., DL below applicable MCLs for water quality issues)?	X		

Quality Control Checklist *- continued*

	Yes	No	NA
8a. Are detection limits appropriate based on the analysis performed (i.e., not elevated due to dilution effects)?	X		
8b. If no, is an explanation provided by the laboratory?			X
9a. Were the samples analyzed within the appropriate holding time (generally 2 weeks for volatiles, and up to 6 months for total metals)?	X		
9b. If no, was it flagged in the report?			X
10. If samples were composited prior to analysis, does the lab report indicate which samples were composited for each analysis?			X
11a. Do the chromatograms confirm quantitative laboratory results (petroleum hydrocarbons)?			X
11b. Is a standard chromatogram(s) included in the laboratory report?			X
11c. Do the chromatograms confirm laboratory notes, if present (e.g., sample exhibits lighter hydrocarbon than standard)?			X
12. Are the results consistent with previous analytical results from the site? *(If no, contact the lab and request review/reanalysis of data, as appropriate.)*	X		
13a. REVISED LAB REPORTS ONLY. Is the revised lab report or revised pages to a lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel?			X
13b. REVISED LAB REPORTS ONLY. Does the case narrative indicate the date of revision and provide an explanation for the revision?			X
13c. REVISED LAB REPORTS ONLY. Does the revised lab report adequately address the problem(s) that triggered the need for a revision?			X
13d. REVISED LAB REPORTS ONLY. Are the data included in the revised report the same as the data reported in the original report, except where the report was revised to correct incorrectly reported data?			X
QA/QC Questions Field/Laboratory Quality Control - Groundwater Analyses			
14. Are field blanks reported as "ND" (groundwater samples)? *A field blank is a sample of DI water that is prepared in the field using the same collection and handling procedures as the other samples collected, and used to demonstrate that the sampling procedure has not contaminated the sample.*			X
14a. Are rinsate blanks reported as "ND" (soil samples)? *A rinsate blank is a sample of DI water that is prepared in the field by collecting DI rinse water after it has been poured over decontaminated sampling equipment. The rinsate blank is collected to demonstrate that the decontamination procedure has removed all the contaminants from the sampling equipment and that the sampling equipment has not contaminated the sample.*			X

Quality Control Checklist *- continued*

	Yes	No	NA
15. Are trip blanks reported as "ND" (groundwater samples/volatile analyses)? *A trip blank is a sample of contaminant free matrix placed in an appropriate container by the lab and transported with the field samples collected. Provides information regarding positive interference introduced during sample transport, storage, preservation, and analysis. The sample is NOT opened in the field.*			X
16. Are duplicate sample results consistent with the original sample (groundwater samples)? *Field duplicates consist of two independent samples collected at the same sampling location during a single sampling event. Used to evaluate precision of the analytical data and sampling technique. (Differences between the duplicate and sample results may also be attributed to environmental variability.)*			X
Batch Quality Control (Samples are batched together by matrix [soil, water] and analyses requested. A batch generally consists of 20 or fewer samples of the same matrix type, and is prepared using the same reagents, standards, procedures, and time frame as the samples. QC samples are run with each batch to assess performance of the entire measurement process.)			
17. Do the sample batch numbers and corresponding laboratory QA/QC batch numbers match?	X		
18a. Are method blanks (MB) for the analytical method(s) below the laboratory reporting limits? *Used to assess lab contamination and prevent false positive results.*	X		
18b. If no, is an explanation provided in the case narrative to validate the data?			X
18c. Are analytes that may be considered laboratory contaminants reported below the laboratory reporting limit? *Common lab contaminants include acetone, methylene chloride, diethylhexyl phthalate, and di-n-octyl phthalate.*	X		
18d. If no, was the laboratory contacted to determine whether the reported analyte could be a potential laboratory contaminant and was an explanation included in the case narrative?			X
19. Are laboratory control samples (LCS) and LCS duplicate (LCSD) [a.k.a., Blank Spike (BS) and BS duplicates (BSD)] within laboratory reporting limits? Limits should be provided on the report. *LCS is a reagent blank spike with a representative selection of target analyte(s) and prepared in the same manner as the samples analyzed. The LCS should be spiked with the same analytes as the matrix spike (below). The LCS is free from interferences from the sample matrix and demonstrates the ability of the lab instruments to recover the target analytes. Accuracy (recovery information) is generally reported as % spike recovery; precision (reproducibility of results) between the LCS and LCSD is generally reported as the relative percent difference (RPD). LCS/LCSD can be run in addition to or in lieu of matrix QC data.*	X		
20a. Are the Matrix QC data (i.e., MS/MSD) within laboratory limits? Limits should be provided on the lab report. *The lab selects a sample from the batch and analyzes a spike and a spike duplicate of that sample. Matrix QC data is used to obtain precision and accuracy information and is reported in the same manner as LCS/LCSD. If the MS/MSD fails, the results may still be considered valid if the MB and either the LCS/LCSD or BS/BSD is within the lab's limits (failure is probably due to matrix interference).*	X		

Quality Control Checklist *- continued*

	Yes	No	NA
20b. If no, is the MB and either LCS/LCSD or BS/BSD within lab limits to validate the data?			X
Sample Quality Control			
21a. Are the surrogate spikes reported within the lab's acceptable recovery limits? *A surrogate is a non-target analyte, which is similar in chemical structure to the analyte(s) being analyzed for, and which is not commonly found in environmental samples. A known concentration of the surrogate is spiked into the sample or QA "sample" prior to extraction or sample preparation. Results are usually reported as % recovery of the spike. Failure to meet lab's limits for primary and secondary surrogates results in rebatching and reanalysis of the sample; failure of only the primary or the secondary surrogate may be acceptable under certain circumstances. Failure generally is due to coelution with the sample matrix.*	X		
21b. If no, is an explanation given in the case narrative to validate the data?			X

Comments:

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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 218575
ANALYTICAL REPORT

Baseline Environmental	Project : Y0232-03
5900 Hollis Street	Location : 751-785 Seventh St. Oakland
Emeryville, CA 94608	Level : II

Sample ID	Lab ID
MW-FP3;5.0-5.5	218575-001
MW-FP4A;5.0-5.5	218575-002
MW-FP4A;10.0-10.5	218575-003
MW-FP4A;15.0-15.5	218575-004
MW-FP4A;20.0-20.5	218575-005
MW-FP5;5.0-5.5	218575-006
MW-FP5;10.0-10.5	218575-007
MW-FP5;15.0-15.5	218575-008
MW-FP5;20.0-20.5	218575-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Desiree N. Tetreault Date: 03/17/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**218575**
Client:	**Baseline Environmental**
Project:	**Y0232-03**
Location:	**751-785 Seventh St. Oakland**
Request Date:	**03/03/10**
Samples Received:	**03/03/10**

This data package contains sample and QC results for nine soil samples, requested for the above referenced project on 03/03/10. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7471A):
No analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):
No analytical problems were encountered.

Total Organic Carbon (TOC) (WALKLEY-BLACK):
No analytical problems were encountered.

219575

BASELINE Environmental Consulting
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

Turn-Around-Time Standard TAT
Laboratory Curtis & Tompkins, Ltd.
BASELINE Contact Person Lydia Huang

Project Number Y0232-03
Project Name: 751 - 785 Seventh St. Oakland

Samplers Signature: William K Scott

	Sample ID No. Station	Date	Time	Media	Containers Type No.	Stainless Steel	Brass liner	Macrocore	Presv. Ice	VOC's (EPA 8260)	TOC	Title 22 Metals (EPA 6010B/7400)	Cr VI (EPA 7196A)
1	MW-FP3;5.0-5.5	3-3-10	~~7:20~~ 9:05	S	1		1					X	X
2	MW-FP4A;5.0-5.5		7:20	S	1		1					X	X
3	MW-FP4A;10.0-10.5		7:35	S	1		1					X	X
4	MW-FP4A;15.0-15.5		7:38	S	1		1					X	X
5	MW-FP4A;20.0-20.5		7:46	S	1		1				X	X	X
6	MW-FP5;5.0-5.5		10:35	S	1		1					X	X
7	MW-FP5;10.0-10.5		10:39	S	1		1					X	X
8	MW-FP5;15.0-15.5		10:44	S	1		1					X	X
9	MW-FP5;20.0-20.5		10:50	S	1		1					X	X

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks:
William K Scott	3/3/10 12:15	Pat Hanafy	3/3/10 12:15	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Email contact:
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	

Received at laboratory with intact custody seal:	Samples conditions Upon Arrival:	Comments:
Yes No (Na)	Intact (On Ice) (Cold)	

Brush st- Soil Lrg.xls

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 218575 Date Received 3/3/10 Number of coolers 1
Client BASELINE Project 751-785 FITH ST. OAKLAND

Date Opened 3/3/10 By (print) M. MILLAN (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
Shipping info

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ (NO)
How many Name Date
2B. Were custody seals intact upon arrival? YES NO (N/A)
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☐ Wet ☑ Blue/Gel ☐ None Temp(°C)

☑ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are samples in the appropriate containers for indicated tests? (YES) NO
11. Are sample labels present, in good condition and complete? (YES) NO
12. Do the sample labels agree with custody papers? (YES) NO
13. Was sufficient amount of sample sent for tests requested? (YES) NO
14. Are the samples appropriately preserved? YES NO (N/A)
15. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)
16. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	218575	Project#:	Y0232-03
Client:	Baseline Environmental	Location:	751-785 Seventh St. Oakland
Field ID:	MW-FP3;5.0-5.5	Basis:	as received
Lab ID:	218575-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/03/10
Units:	mg/Kg	Received:	03/03/10

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Arsenic	3.2	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Barium	47	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Beryllium	0.43	0.10	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Chromium	72	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cobalt	5.5	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Copper	20	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Lead	3.5	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Mercury	ND	0.021	160652	03/05/10	03/05/10	METHOD	EPA 7471A
Molybdenum	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Nickel	51	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Selenium	0.69	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Silver	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Thallium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Vanadium	38	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Zinc	33	1.0	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	218575	Project#:	Y0232-03
Client:	Baseline Environmental	Location:	751-785 Seventh St. Oakland
Field ID:	MW-FP4A;5.0-5.5	Basis:	as received
Lab ID:	218575-002	Sampled:	03/03/10
Matrix:	Soil	Received:	03/03/10
Units:	mg/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Arsenic	2.1	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Barium	47	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Beryllium	0.22	0.10	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cadmium	1.8	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Chromium	1,400	2.4	10.00	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cobalt	6.3	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Copper	88	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Lead	1.7	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Mercury	ND	0.020	1.000	160652	03/05/10	03/05/10	METHOD	EPA 7471A
Molybdenum	ND	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Nickel	36	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Vanadium	29	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Zinc	22	1.0	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	218575	Project#:	Y0232-03
Client:	Baseline Environmental	Location:	751-785 Seventh St. Oakland
Field ID:	MW-FP4A;10.0-10.5	Basis:	as received
Lab ID:	218575-003	Sampled:	03/03/10
Matrix:	Soil	Received:	03/03/10
Units:	mg/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Arsenic	2.1	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Barium	46	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Beryllium	0.27	0.10	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cadmium	2.0	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Chromium	440	2.3	10.00	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cobalt	4.9	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Copper	140	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Lead	2.2	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Mercury	ND	0.021	1.000	160652	03/05/10	03/05/10	METHOD	EPA 7471A
Molybdenum	ND	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Nickel	62	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Vanadium	27	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Zinc	27	1.0	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	218575	Project#:	Y0232-03
Client:	Baseline Environmental	Location:	751-785 Seventh St. Oakland
Field ID:	MW-FP4A;15.0-15.5	Basis:	as received
Lab ID:	218575-004	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/03/10
Units:	mg/Kg	Received:	03/03/10

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Arsenic	2.5	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Barium	40	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Beryllium	0.25	0.10	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Chromium	130	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cobalt	5.6	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Copper	7.1	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Lead	2.1	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Mercury	ND	0.020	160652	03/05/10	03/05/10	METHOD	EPA 7471A
Molybdenum	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Nickel	76	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Selenium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Silver	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Thallium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Vanadium	33	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Zinc	21	1.0	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	218575	Project#:	Y0232-03
Client:	Baseline Environmental	Location:	751-785 Seventh St. Oakland
Field ID:	MW-FP4A;20.0-20.5	Basis:	as received
Lab ID:	218575-005	Sampled:	03/03/10
Matrix:	Soil	Received:	03/03/10
Units:	mg/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Arsenic	3.0	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Barium	44	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Beryllium	0.13	0.10	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Chromium	560	2.3	10.00	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cobalt	4.3	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Copper	5.9	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Lead	0.83	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Mercury	ND	0.021	1.000	160652	03/05/10	03/05/10	METHOD	EPA 7471A
Molybdenum	ND	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Nickel	42	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Vanadium	25	0.25	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Zinc	18	1.0	1.000	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	218575	Project#:	Y0232-03
Client:	Baseline Environmental	Location:	751-785 Seventh St. Oakland
Field ID:	MW-FP5;5.0-5.5	Basis:	as received
Lab ID:	218575-006	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/03/10
Units:	mg/Kg	Received:	03/03/10

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Arsenic	3.0	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Barium	44	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Beryllium	0.31	0.10	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Chromium	120	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cobalt	2.4	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Copper	23	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Lead	3.3	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Mercury	ND	0.020	160652	03/05/10	03/05/10	METHOD	EPA 7471A
Molybdenum	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Nickel	31	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Selenium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Silver	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Thallium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Vanadium	45	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Zinc	29	1.0	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	218575	Project#:	Y0232-03
Client:	Baseline Environmental	Location:	751-785 Seventh St. Oakland
Field ID:	MW-FP5;10.0-10.5	Basis:	as received
Lab ID:	218575-007	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/03/10
Units:	mg/Kg	Received:	03/03/10

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Arsenic	2.1	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Barium	43	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Beryllium	0.21	0.10	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Chromium	43	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cobalt	5.7	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Copper	7.6	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Lead	2.0	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Mercury	ND	0.021	160652	03/05/10	03/05/10	METHOD	EPA 7471A
Molybdenum	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Nickel	30	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Selenium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Silver	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Thallium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Vanadium	28	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Zinc	21	1.0	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	218575	Project#:	Y0232-03
Client:	Baseline Environmental	Location:	751-785 Seventh St. Oakland
Field ID:	MW-FP5;15.0-15.5	Basis:	as received
Lab ID:	218575-008	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/03/10
Units:	mg/Kg	Received:	03/03/10

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Arsenic	4.4	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Barium	66	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Beryllium	0.33	0.10	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Chromium	65	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cobalt	8.4	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Copper	10	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Lead	2.5	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Mercury	ND	0.020	160652	03/05/10	03/05/10	METHOD	EPA 7471A
Molybdenum	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Nickel	35	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Selenium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Silver	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Thallium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Vanadium	43	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Zinc	23	1.0	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	218575	Project#:	Y0232-03
Client:	Baseline Environmental	Location:	751-785 Seventh St. Oakland
Field ID:	MW-FP5;20.0-20.5	Basis:	as received
Lab ID:	218575-009	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/03/10
Units:	mg/Kg	Received:	03/03/10

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Arsenic	1.9	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Barium	28	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Beryllium	0.11	0.10	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Chromium	62	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Cobalt	4.5	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Copper	7.4	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Lead	1.2	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Mercury	ND	0.020	160652	03/05/10	03/05/10	METHOD	EPA 7471A
Molybdenum	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Nickel	28	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Selenium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Silver	ND	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Thallium	ND	0.50	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Vanadium	24	0.25	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B
Zinc	18	1.0	160726	03/08/10	03/09/10	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0232-03	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	160652
Lab ID:	QC534979	Prepared:	03/05/10
Matrix:	Soil	Analyzed:	03/05/10
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0232-03	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	160652
Matrix:	Soil	Prepared:	03/05/10
Units:	mg/Kg	Analyzed:	03/05/10
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC534980	0.2500	0.2470	99	77-130		
BSD	QC534981	0.2500	0.2500	100	77-130	1	16

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0232-03	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	10.00
Field ID:	ZZZZZZZZZZ	Batch#:	160652
MSS Lab ID:	218616-001	Sampled:	03/04/10
Matrix:	Soil	Received:	03/04/10
Units:	mg/Kg	Prepared:	03/05/10
Basis:	as received	Analyzed:	03/05/10

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC534982	4.217	0.2358	4.274	24 NM	38-164		
MSD	QC534983		0.2551	4.541	127 NM	38-164	6	56

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	EPA 3050B
Project#:	Y0232-03	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC535252	Batch#:	160726
Matrix:	Soil	Prepared:	03/08/10
Units:	mg/Kg	Analyzed:	03/09/10

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.25
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	EPA 3050B
Project#:	Y0232-03	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	160726
Units:	mg/Kg	Prepared:	03/08/10
Diln Fac:	1.000	Analyzed:	03/09/10

Type: BS Lab ID: QC535253

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.45	95	75-122
Arsenic	50.00	51.20	102	76-119
Barium	100.0	95.90	96	73-120
Beryllium	2.500	2.521	101	80-122
Cadmium	10.00	9.824	98	77-120
Chromium	100.0	94.00	94	74-118
Cobalt	25.00	23.12	92	72-114
Copper	12.50	12.08	97	72-117
Lead	100.0	94.57	95	73-117
Molybdenum	20.00	20.05	100	79-120
Nickel	25.00	23.09	92	73-115
Selenium	50.00	48.01	96	71-121
Silver	10.00	9.221	92	72-115
Thallium	50.00	46.98	94	73-116
Vanadium	25.00	24.09	96	72-121
Zinc	25.00	23.73	95	71-119

Type: BSD Lab ID: QC535254

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	95.58	96	75-122	0	19
Arsenic	50.00	50.90	102	76-119	1	20
Barium	100.0	95.80	96	73-120	0	18
Beryllium	2.500	2.519	101	80-122	0	19
Cadmium	10.00	9.925	99	77-120	1	18
Chromium	100.0	94.00	94	74-118	0	25
Cobalt	25.00	23.12	92	72-114	0	18
Copper	12.50	12.03	96	72-117	0	17
Lead	100.0	94.88	95	73-117	0	24
Molybdenum	20.00	20.09	100	79-120	0	20
Nickel	25.00	23.18	93	73-115	0	17
Selenium	50.00	46.95	94	71-121	2	19
Silver	10.00	9.219	92	72-115	0	17
Thallium	50.00	47.01	94	73-116	0	18
Vanadium	25.00	24.10	96	72-121	0	18
Zinc	25.00	23.64	95	71-119	0	18

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	EPA 3050B
Project#:	Y0232-03	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	160726
MSS Lab ID:	218499-001	Sampled:	02/19/10
Matrix:	Oil	Received:	02/25/10
Units:	mg/Kg	Prepared:	03/08/10
Diln Fac:	1.000	Analyzed:	03/09/10

Type: MS Lab ID: QC535255

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.1424	97.09	85.44	88	1-142
Arsenic	0.08336	48.54	50.76	104	45-136
Barium	0.3063	97.09	97.19	100	11-172
Beryllium	<0.01180	2.427	2.549	105	56-133
Cadmium	<0.02429	9.709	9.795	101	46-132
Chromium	<0.05998	97.09	95.69	99	27-153
Cobalt	<0.02852	24.27	23.64	97	34-139
Copper	1.169	12.14	14.25	108	12-174
Lead	0.09626	97.09	93.96	97	27-147
Molybdenum	<0.04652	19.42	19.84	102	43-130
Nickel	<0.06267	24.27	23.32	96	15-165
Selenium	<0.1521	48.54	47.95	99	44-132
Silver	<0.03797	9.709	9.180	95	47-130
Thallium	0.1582	48.54	46.00	94	40-124
Vanadium	<0.05431	24.27	24.35	100	18-167
Zinc	1.341	24.27	25.95	101	6-172

Type: MSD Lab ID: QC535256

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	99.01	85.08	86	1-142	2	47
Arsenic	49.50	50.36	102	45-136	3	39
Barium	99.01	94.49	95	11-172	5	49
Beryllium	2.475	2.486	100	56-133	4	32
Cadmium	9.901	9.711	98	46-132	3	29
Chromium	99.01	93.55	94	27-153	4	40
Cobalt	24.75	23.37	94	34-139	3	42
Copper	12.38	13.42	99	12-174	8	49
Lead	99.01	93.07	94	27-147	3	54
Molybdenum	19.80	19.47	98	43-130	4	33
Nickel	24.75	23.27	94	15-165	2	46
Selenium	49.50	47.13	95	44-132	4	30
Silver	9.901	9.019	91	47-130	4	29
Thallium	49.50	45.24	91	40-124	4	28
Vanadium	24.75	23.87	96	18-167	4	39
Zinc	24.75	24.53	94	6-172	7	53

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	EPA 3060A
Project#:	Y0232-03	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Matrix:	Soil	Batch#:	160781
Units:	mg/Kg	Received:	03/03/10
Basis:	as received	Analyzed:	03/10/10 00:00

Field ID	Type	Lab ID	Result	RL	Sampled
MW-FP3;5.0-5.5	SAMPLE	218575-001	ND	0.40	03/03/10 09:05
MW-FP4A;5.0-5.5	SAMPLE	218575-002	92	2.0	03/03/10 07:20
MW-FP4A;10.0-10.5	SAMPLE	218575-003	310	10	03/03/10 07:35
MW-FP4A;15.0-15.5	SAMPLE	218575-004	19	0.40	03/03/10 07:38
MW-FP4A;20.0-20.5	SAMPLE	218575-005	460	9.3	03/03/10 07:46
MW-FP5;5.0-5.5	SAMPLE	218575-006	1.0	0.40	03/03/10 10:35
MW-FP5;10.0-10.5	SAMPLE	218575-007	5.3	0.40	03/03/10 10:39
MW-FP5;15.0-15.5	SAMPLE	218575-008	11	0.40	03/03/10 10:44
MW-FP5;20.0-20.5	SAMPLE	218575-009	21	0.30	03/03/10 10:50
	BLANK	QC535490	ND	0.40	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	EPA 3060A
Project#:	Y0232-03	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	MW-FP5;20.0-20.5	Batch#:	160781
MSS Lab ID:	218575-009	Sampled:	03/03/10 10:50
Matrix:	Soil	Received:	03/03/10
Units:	mg/Kg	Analyzed:	03/10/10 00:00
Basis:	as received		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC535491		4.000	36.93	92	79-118		
MS	QC535492	21.04	39.06	52.92	82	1-163		
MSD	QC535493		40.00	57.57	91	1-163	7	39

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0232-03	Analysis:	WALKLEY-BLACK
Analyte:	Total Organic Carbon	Diln Fac:	1.000
Field ID:	MW-FP4A;20.0-20.5	Batch#:	160672
Matrix:	Soil	Sampled:	03/03/10
Units:	%	Received:	03/03/10
Basis:	as received	Analyzed:	03/05/10

Type	Lab ID	Result	RL
SAMPLE	218575-005	ND	0.01
BLANK	QC535049	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	218575	Location:	751-785 Seventh St. Oakland
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0232-03	Analysis:	WALKLEY-BLACK
Analyte:	Total Organic Carbon	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	160672
MSS Lab ID:	218517-008	Sampled:	02/28/10
Matrix:	Soil	Received:	03/01/10
Units:	%	Analyzed:	03/05/10
Basis:	as received		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC535050		0.1300	0.1190	91	90-110		
MS	QC535051	0.03300	0.2000	0.1960	81	21-148		
MSD	QC535052		0.1985	0.1810	75	21-148	7	28

RPD= Relative Percent Difference

QUALITY CONTROL CHECKLIST
FOR REVIEW OF LABORATORY REPORT

Job No.	Y0323-03	**Site:**	751-785 7th St
Laboratory:	Curtis and Tompkins, Ltd.	**Laboratory Report No.:**	219511
Report Date:	17 March 2010	**BASELINE Reviewer:**	JM

	Yes	No	NA
GENERAL QUESTIONS **(Describe "no" responses below in "comments" section. Contact the laboratory, as required, for further explanation or action on "no" responses; document discussion in comments section.)**			
1a. Does the report include a case narrative? *(A case narrative MUST be prepared by the lab for all analytical work requested by BASELINE)*	X		
1b. Is the number of pages for the lab report as indicated on the case narrative/lab transmittal consistent with the number of pages that are included in report?	X		
1c. Does the case narrative indicate which samples were analyzed by a subcontractor and the subcontractor's name?			X
1d. Does the case narrative summarize subsequent requests not shown on the chain-of-custody (e.g., additional analyses requested, release of "hold" samples)?			X
1e. Does the case narrative explain why requested analyses could not be performed by laboratory (e.g., insufficient sample)?			X
1f. Does the case narrative explain all problems with the QA/QC data as identified in the checklist (as applicable)?			X
2a. Is the laboratory report format consistent and legible throughout the report?	X		
2b. Are the sample and reported dates shown in the laboratory report correct?	X		
3a. Does the lab report include an original copy of the chain-of-custody form?	X		
3b. Were all samples appropriately analyzed as requested on the chain-of-custody form?	X		
4. Was the lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel? (Some lab reports have signature spaces for each page). (This requirement also applies to any analyses subcontracted out by the laboratory)	X		
5a. Are preparation methods, cleanup methods (if applicable), and laboratory methods indicated for all analyses?	X		
5b. If additional analytes were requested as part of the reporting of the data for an analytical method, were these included in the lab report?			X
6. Are the units in the lab report provided for each analysis consistent throughout the report?	X		
7. Are the detection limits (DL) appropriate based on the intended use of the data (e.g., DL below applicable MCLs for water quality issues)?		X	

Quality Control Checklist *- continued*

	Yes	No	NA
8a. Are detection limits appropriate based on the analysis performed (i.e., not elevated due to dilution effects)?	X		
8b. If no, is an explanation provided by the laboratory?			X
9a. Were the samples analyzed within the appropriate holding time (generally 2 weeks for volatiles, and up to 6 months for total metals)?	X		
9b. If no, was it flagged in the report?			X
10. If samples were composited prior to analysis, does the lab report indicate which samples were composited for each analysis?			X
11a. Do the chromatograms confirm quantitative laboratory results (petroleum hydrocarbons)?			X
11b. Is a standard chromatogram(s) included in the laboratory report?			X
11c. Do the chromatograms confirm laboratory notes, if present (e.g., sample exhibits lighter hydrocarbon than standard)?			X
12. Are the results consistent with previous analytical results from the site? *(If no, contact the lab and request review/reanalysis of data, as appropriate.)*	X		
13a. REVISED LAB REPORTS ONLY. Is the revised lab report or revised pages to a lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel?			X
13b. REVISED LAB REPORTS ONLY. Does the case narrative indicate the date of revision and provide an explanation for the revision?			X
13c. REVISED LAB REPORTS ONLY. Does the revised lab report adequately address the problem(s) that triggered the need for a revision?			X
13d. REVISED LAB REPORTS ONLY. Are the data included in the revised report the same as the data reported in the original report, except where the report was revised to correct incorrectly reported data?			X
QA/QC Questions Field/Laboratory Quality Control - Groundwater Analyses			
14. Are field blanks reported as "ND" (groundwater samples)? *A field blank is a sample of DI water that is prepared in the field using the same collection and handling procedures as the other samples collected, and used to demonstrate that the sampling procedure has not contaminated the sample.*			X
14a. Are rinsate blanks reported as "ND" (soil samples)? *A rinsate blank is a sample of DI water that is prepared in the field by collecting DI rinse water after it has been poured over decontaminated sampling equipment. The rinsate blank is collected to demonstrate that the decontamination procedure has removed all the contaminants from the sampling equipment and that the sampling equipment has not contaminated the sample.*			X

Quality Control Checklist *- continued*

	Yes	No	NA
15. Are trip blanks reported as "ND" (groundwater samples/volatile analyses)? *A trip blank is a sample of contaminant free matrix placed in an appropriate container by the lab and transported with the field samples collected. Provides information regarding positive interference introduced during sample transport, storage, preservation, and analysis. The sample is NOT opened in the field.*	x		
16. Are duplicate sample results consistent with the original sample (groundwater samples)? *Field duplicates consist of two independent samples collected at the same sampling location during a single sampling event. Used to evaluate precision of the analytical data and sampling technique. (Differences between the duplicate and sample results may also be attributed to environmental variability.)*			X
Batch Quality Control (Samples are batched together by matrix [soil, water] and analyses requested. A batch generally consists of 20 or fewer samples of the same matrix type, and is prepared using the same reagents, standards, procedures, and time frame as the samples. QC samples are run with each batch to assess performance of the entire measurement process.)			
17. Do the sample batch numbers and corresponding laboratory QA/QC batch numbers match?	X		
18a. Are method blanks (MB) for the analytical method(s) below the laboratory reporting limits? *Used to assess lab contamination and prevent false positive results.*	X		
18b. If no, is an explanation provided in the case narrative to validate the data?			X
18c. Are analytes that may be considered laboratory contaminants reported below the laboratory reporting limit? *Common lab contaminants include acetone, methylene chloride, diethylhexyl phthalate, and di-n-octyl phthalate.*		X	
18d. If no, was the laboratory contacted to determine whether the reported analyte could be a potential laboratory contaminant and was an explanation included in the case narrative?		X	
19. Are laboratory control samples (LCS) and LCS duplicate (LCSD) [a.k.a., Blank Spike (BS) and BS duplicates (BSD)] within laboratory reporting limits? Limits should be provided on the report. *LCS is a reagent blank spike with a representative selection of target analyte(s) and prepared in the same manner as the samples analyzed. The LCS should be spiked with the same analytes as the matrix spike (below). The LCS is free from interferences from the sample matrix and demonstrates the ability of the lab instruments to recover the target analytes. Accuracy (recovery information) is generally reported as % spike recovery; precision (reproducibility of results) between the LCS and LCSD is generally reported as the relative percent difference (RPD). LCS/LCSD can be run in addition to or in lieu of matrix QC data.*	X		
20a. Are the Matrix QC data (i.e., MS/MSD) within laboratory limits? Limits should be provided on the lab report. *The lab selects a sample from the batch and analyzes a spike and a spike duplicate of that sample. Matrix QC data is used to obtain precision and accuracy information and is reported in the same manner as LCS/LCSD. If the MS/MSD fails, the results may still be considered valid if the MB and either the LCS/LCSD or BS/BSD is within the lab's limits (failure is probably due to matrix interference).*	X		

Quality Control Checklist *- continued*

	Yes	No	NA
20b. If no, is the MB and either LCS/LCSD or BS/BSD within lab limits to validate the data?			X
Sample Quality Control			
21a. Are the surrogate spikes reported within the lab's acceptable recovery limits? *A surrogate is a non-target analyte, which is similar in chemical structure to the analyte(s) being analyzed for, and which is not commonly found in environmental samples. A known concentration of the surrogate is spiked into the sample or QA "sample" prior to extraction or sample preparation. Results are usually reported as % recovery of the spike. Failure to meet lab's limits for primary and secondary surrogates results in rebatching and reanalysis of the sample; failure of only the primary or the secondary surrogate may be acceptable under certain circumstances. Failure generally is due to coelution with the sample matrix.*	X		
21b. If no, is an explanation given in the case narrative to validate the data?			X

Comments:

The groundwater sample for volatile organic analysis from MW-FB4B reportedly contain more than one milliliter of headspace, and therefore, may be biased low.

Acetone, a common laboratory contaminant, was detected above the reporting limit in one sample.


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 219511
ANALYTICAL REPORT

Baseline Environmental	Project : Y0323-03
5900 Hollis Street	Location : 751-758 Seventh St Oakland CA
Emeryville, CA 94608	Level : II

Sample ID	Lab ID
MW-FP1	219511-001
MW-FP2	219511-002
MW-FP3	219511-003
MW-FP4A	219511-004
MW-FP4B	219511-005
MW-FP5	219511-006
MW-FP6	219511-007
MW-FP7B	219511-008
TRIP BLANK	219511-009
MW-3	219511-010
MW-9	219511-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Desiree N. Tetrault Date: 04/22/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**219511**
Client:	**Baseline Environmental**
Project:	**Y0323-03**
Location:	**751-758 Seventh St Oakland CA**
Request Date:	**04/15/10**
Samples Received:	**04/15/10**

This data package contains sample and QC results for eleven water samples, requested for the above referenced project on 04/15/10. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
MW-FP4A (lab # 219511-004) was analyzed with more than 1 mL of headspace in the VOA vial. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):
No analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):
No analytical problems were encountered.

219511

BASELINE Environmental Consulting
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

Turn-Around-Time Standard
Laboratory Curtis and Tompkins, Ltd.
BASELINE Contact Person Lydia Huang

Project Number Y0323-03
Project Name: 751-758 7th St.
Samplers: (Signature) [signature] / Reginald Ramirez

Sample ID	Date	Time	Media	Containers: No. (total)	Type: L-AG	Type: 40-ml VOA	Type: 1000 ml-Poly	Type: 500 ml-Poly	Type: 250 ml Poly	Preservative: Ice	Preservative: HCL	Preservative: HNO_3	Preservative: H_2SO_4	Preservative: NaOH	TPH-g & BTEX (EPA Method 8015M)	TPH-d and mo (EPA Method 8015M with silica gel cleanup)	VOC (EPA Method 8260B)	MTBE (EPA Method 8260B)	SVOC (EPA Method 8270)	PCB (EPA Method 8082)	Dissolved Sulfides	Total Suspended Solids	TDS (SM2540C)	Cr-VI (EPA Method 7196A)*	Title 22 Metals (EPA Method 6010B/7471)*	Remarks
1 MW-FP1	4/15/10	8:30	Water	5		3			1	X	X						X							X		
				8				1																	X	
				WS																						
2 MW-FP2	4/15/10	8:35	Water	WS		3				X	X						X									
				5					1															X		
				8				1																	X	
3 MW-FP3	4/15/10	9:00	Water	WS		3				X	X						X									
				5					1															X		
				8				1																	X	

Relinquished by: (Signature) Reginald Ramirez	Date/Time 4/15/2010 15:20	Received by: (Signature) [signature]	Date/Time 4/15/10 15:21	Remarks:
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		Email contact:

Received at laboratory with intact custody seal	Samples conditions Upon Arrival:	Comments: * Lab to Filter and Preserve
Yes No Na	Intact On Ice Cold	

Cold and Intact

Brush Groundwater Lrg MW-FP1 to MW_FP3.xls

21951 1

CHAIN OF CUSTODY RECORD

BASELINE Environmental Consulting
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

Turn-Around-Time Standard
Laboratory Curtis and Tompkins, Ltd.
BASELINE Contact Person Lydia Huang

Project Number Y0323-03
Project Name: 751-758 7th St.
Samplers: (Signature) Reginald Ramirez

	Sample ID	Date	Time	Media	Containers: No. (total)	L-AG	40-ml VOA	1000 ml-Poly	500 ml-Poly	250 ml Poly	Preservative: Ice	HCL	HNO_3	H_2SO_4	NaOH	TPH-g & BTEX (EPA Method 8015M)	TPH-d and mo (EPA Method 8015M with silica gel cleanup)	VOC (EPA Method 8260B)	MTBE (EPA Method 8260B)	SVOC (EPA Method 8270)	PCB (EPA Method 8082)	Dissolved Sulfides	Total Suspended Solids	TDS (SM2540C)	Cr-VI (EPA Method 7196A)*	Title 22 Metals (EPA Method 6010B/7471)*	Remarks
4	MW-FP4A	4/15/10	14:35	Water	WB 3		3			1	X	X						X							X		Elevated Cr+6
					2				1																	X	
					5																						
5	MW-FP4B	4/15/10	14:10	Water	WB 3		3			1	X	X						X							X		
					2				1																	X	
					5																						
6	MW-FP5	4/15/10	13:00	Water	WB 3		3			1	X	X						X							X		
					5				1																	X	
					6																						

Relinquished by: (Signature) Reginald Ramirez	Date/Time 4/15/2010 15:21	Received by: (Signature)	Date/Time 4/15/10 15:2
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	

Remarks:

Email contact:

Received at laboratory with intact custody seal	Samples conditions Upon Arrival:	Comments: * Lab to Filter and Preserve
Yes No Na	Intact On Ice Cold	

COC Email

219511

CHAIN OF CUSTODY RECORD

BASELINE Environmental Consulting
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

Turn-Around-Time Standard
Laboratory Curtis and Tompkins, Ltd.
BASELINE Contact Person Lydia Huang

Project Number Y0323-03
Project Name: 751-758 7th St.
Samplers: (Signature) Reginald Kamuy

Sample ID	Date	Time	Media	Containers: No. (total)	Type: L-AG	Type: 40-ml VOA	Type: 1000 ml-Poly	Type: 500 ml-Poly	Type: 250 ml Poly	Preservative: Ice	Preservative: HCL	Preservative: HNO_3	Preservative: H_2SO_4	Preservative: NaOH	TPH-g & BTEX (EPA Method 8015M)	TPH-d and mo (EPA Method 8015M with silica gel cleanup)	VOC (EPA Method 8260B)	MTBE (EPA Method 8260B)	SVOC (EPA Method 8270)	PCB (EPA Method 8082)	Dissolved Sulfides	Total Suspended Solids	TDS (SM2540C)	Cr-VI (EPA Method 7196A)*	Title 22 Metals (EPA Method 6010B/7471)*	Remarks
1 MW-FP6	4/15/10	11:35	Water	5		6	3			X	X						X							X		
									1																X	
8				8				1		X																
8 MW-FP7B	4/15/10	12:13	Water	5		6	5			X	X						X							X		
									1																X	
9				8				1		X																
10 Trip Blank	4/15/10	7:00	water	2		2											X									

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks:
Reginald Kamuy	4/15/10 15:21	[signature]	4/15/10 15:21	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		Email contact:

Received at laboratory with intact custody seal	Samples conditions Upon Arrival:	Comments: * Lab to Filter and Preserve
Yes No Na	Intact On Ice Cold	

Add Grab

Brush Groundwater Lrg MW-FP6 to MW_FP7B.xls

21951 1

CHAIN OF CUSTODY RECORD

BASELINE Environmental Consulting
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

Turn-Around-Time Standard
Laboratory Curtis and Tompkins, Ltd.
BASELINE Contact Person Lydia Huang

Project Number Y0323-03
Project Name: 751-758 7th St.
Samplers: (Signature) Reginald Tanner

Sample ID	Date	Time	Media	Containers: No. (total)	Type: L-AG	Type: 40-ml VOA	Type: 1000 ml-Poly	Type: 500 ml-Poly	Type: 250 ml Poly	Preservative: Ice	Preservative: HCL	Preservative: HNO_3	Preservative: H_2SO_4	Preservative: NaOH	TPH-g & BTEX (EPA Method 8015M)	TPH-d and mo (EPA Method 8015M with silica gel cleanup)	VOC (EPA Method 8260B)	MTBE (EPA Method 8260B)	SVOC (EPA Method 8270)	PCB (EPA Method 8082)	Dissolved Sulfides	Total Suspended Solids	TDS (SM2540C)	Cr-VI (EPA Method 7196A)*	Title 22 Metals (EPA Method 6010B/7471)*	Remarks
MW-3	4/15/10	10:10	Water	5		6	3				X						X							X		
									1																X	
								1		X																
MW-9	4/15/10	10:35	Water	5		6	3				X						X							X		
									1																X	
								1		X																

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks:
Reginald Tanner	4/15/10 15:21	[illegible]	4/15/10 [illegible]	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		Email contact:

Received at laboratory with intact custody seal	Samples conditions Upon Arrival:	Comments: * Lab to Filter and Preserve
Yes No Na	Intact On Ice Cold	

Cold & Intact

Brush Groundwater Lrg MW-3 to MW-9.xls

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 21951l Date Received 4-15-10 Number of coolers 2
Client BASELINE Project 751 - 758 7TH ST

Date Opened 4-15-10 By (print) S. EVANS (sign) [signature]
Date Logged in [signature] By (print) [signature] (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap	☒ Foam blocks	☒ Bags	☐ None
☐ Cloth material	☐ Cardboard	☐ Styrofoam	☐ Paper towels

7. Temperature documentation:

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

   ☒ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
11. Are sample labels present, in good condition and complete? _____ (YES) NO
12. Do the sample labels agree with custody papers? _____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
14. Are the samples appropriately preserved? _____ (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
16. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP1	Batch#:	162139
Lab ID:	219511-001	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP1	Batch#:	162139
Lab ID:	219511-001	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	81-124
1,2-Dichloroethane-d4	107	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	98	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP2	Batch#:	162139
Lab ID:	219511-002	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP2	Batch#:	162139
Lab ID:	219511-002	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	81-124
1,2-Dichloroethane-d4	107	73-140
Toluene-d8	100	88-113
Bromofluorobenzene	99	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP3	Batch#:	162139
Lab ID:	219511-003	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	0.9	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP3	Batch#:	162139
Lab ID:	219511-003	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	81-124
1,2-Dichloroethane-d4	107	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	99	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP4A	Batch#:	162188
Lab ID:	219511-004	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/20/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	34	10
Freon 113	ND	2.0
1,1-Dichloroethene	0.5	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	1.9	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	31	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	51	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP4A	Batch#:	162188
Lab ID:	219511-004	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/20/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	81-124
1,2-Dichloroethane-d4	115	73-140
Toluene-d8	100	88-113
Bromofluorobenzene	100	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP4B	Batch#:	162139
Lab ID:	219511-005	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	19	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP4B	Batch#:	162139
Lab ID:	219511-005	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	81-124
1,2-Dichloroethane-d4	108	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	97	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP5	Batch#:	162139
Lab ID:	219511-006	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	1.2	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP5	Batch#:	162139
Lab ID:	219511-006	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	81-124
1,2-Dichloroethane-d4	108	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	99	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP6	Batch#:	162139
Lab ID:	219511-007	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	9.4	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP6	Batch#:	162139
Lab ID:	219511-007	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	81-124
1,2-Dichloroethane-d4	107	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	98	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP7B	Batch#:	162139
Lab ID:	219511-008	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	1.3	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	2.3	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	7.9	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	4.9	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-FP7B	Batch#:	162139
Lab ID:	219511-008	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	81-124
1,2-Dichloroethane-d4	109	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	99	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	162139
Lab ID:	219511-009	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	162139
Lab ID:	219511-009	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	81-124
1,2-Dichloroethane-d4	104	73-140
Toluene-d8	102	88-113
Bromofluorobenzene	100	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-3	Batch#:	162139
Lab ID:	219511-010	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	0.6	0.5
MTBE	1.0	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	0.5	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-3	Batch#:	162139
Lab ID:	219511-010	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	81-124
1,2-Dichloroethane-d4	110	73-140
Toluene-d8	102	88-113
Bromofluorobenzene	100	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-9	Batch#:	162139
Lab ID:	219511-011	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	1.3	0.5
trans-1,2-Dichloroethene	0.9	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	48	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	27	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Field ID:	MW-9	Batch#:	162139
Lab ID:	219511-011	Sampled:	04/15/10
Matrix:	Water	Received:	04/15/10
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	81-124
1,2-Dichloroethane-d4	108	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	98	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	162139
Units:	ug/L	Analyzed:	04/19/10
Diln Fac:	1.000		

Type: BS Lab ID: QC540929

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.78	95	71-136
Benzene	25.00	24.51	98	81-122
Trichloroethene	25.00	23.09	92	80-124
Toluene	25.00	25.12	100	82-122
Chlorobenzene	25.00	26.00	104	84-118

Surrogate	%REC	Limits
Dibromofluoromethane	100	81-124
1,2-Dichloroethane-d4	103	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	97	80-127

Type: BSD Lab ID: QC540930

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	24.00	96	71-136	1	15
Benzene	25.00	24.32	97	81-122	1	12
Trichloroethene	25.00	22.85	91	80-124	1	13
Toluene	25.00	24.79	99	82-122	1	12
Chlorobenzene	25.00	25.76	103	84-118	1	11

Surrogate	%REC	Limits
Dibromofluoromethane	99	81-124
1,2-Dichloroethane-d4	103	73-140
Toluene-d8	102	88-113
Bromofluorobenzene	95	80-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC540931	Batch#:	162139
Matrix:	Water	Analyzed:	04/19/10
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC540931	Batch#:	162139
Matrix:	Water	Analyzed:	04/19/10
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	81-124
1,2-Dichloroethane-d4	105	73-140
Toluene-d8	101	88-113
Bromofluorobenzene	98	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	162188
Units:	ug/L	Analyzed:	04/20/10
Diln Fac:	1.000		

Type: BS Lab ID: QC541154

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	16.81	84	71-136
Benzene	20.00	18.85	94	81-122
Trichloroethene	20.00	18.89	94	80-124
Toluene	20.00	18.65	93	82-122
Chlorobenzene	20.00	18.05	90	84-118

Surrogate	%REC	Limits
Dibromofluoromethane	100	81-124
1,2-Dichloroethane-d4	110	73-140
Toluene-d8	103	88-113
Bromofluorobenzene	101	80-127

Type: BSD Lab ID: QC541155

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	16.26	81	71-136	3	15
Benzene	20.00	17.79	89	81-122	6	12
Trichloroethene	20.00	18.16	91	80-124	4	13
Toluene	20.00	17.92	90	82-122	4	12
Chlorobenzene	20.00	17.49	87	84-118	3	11

Surrogate	%REC	Limits
Dibromofluoromethane	98	81-124
1,2-Dichloroethane-d4	110	73-140
Toluene-d8	102	88-113
Bromofluorobenzene	100	80-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC541156	Batch#:	162188
Matrix:	Water	Analyzed:	04/20/10
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-03	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC541156	Batch#:	162188
Matrix:	Water	Analyzed:	04/20/10
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	81-124
1,2-Dichloroethane-d4	113	73-140
Toluene-d8	99	88-113
Bromofluorobenzene	99	80-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-FP1	Diln Fac:	1.000
Lab ID:	219511-001	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Barium	41	5.0	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Chromium	13	5.0	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Copper	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Nickel	16	5.0	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Thallium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Zinc	ND	20	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-FP2	Diln Fac:	1.000
Lab ID:	219511-002	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Barium	61	5.0	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Chromium	22	5.0	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Copper	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Nickel	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Thallium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Zinc	ND	20	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-FP3	Diln Fac:	1.000
Lab ID:	219511-003	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Barium	49	5.0	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Chromium	150	5.0	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Copper	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Nickel	25	5.0	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Thallium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Zinc	71	20	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-FP4A	Units:	ug/L
Lab ID:	219511-004	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	1.000	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Barium	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Chromium	400,000	500	100.0	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	180	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Copper	37	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	1.000	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	68	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Nickel	930	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	1.000	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Thallium	110	10	1.000	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Zinc	61	20	1.000	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-FP4B	Diln Fac:	1.000
Lab ID:	219511-005	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Barium	41	5.0	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Chromium	43	5.0	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Copper	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Nickel	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Thallium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	20	5.0	162181	04/19/10	04/20/10	EPA 6010B
Zinc	30	20	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-FP5	Units:	ug/L
Lab ID:	219511-006	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	1.000	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Barium	51	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Chromium	11,000	50	10.00	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	5.6	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Copper	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	1.000	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	16	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Nickel	9.9	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	1.000	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Thallium	ND	10	1.000	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Zinc	25	20	1.000	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-FP6	Units:	ug/L
Lab ID:	219511-007	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	1.000	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Barium	40	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Chromium	11,000	50	10.00	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	6.1	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Copper	6.5	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	1.000	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Nickel	26	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	1.000	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Thallium	ND	100	10.00	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	ND	5.0	1.000	162181	04/19/10	04/20/10	EPA 6010B
Zinc	33	20	1.000	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-FP7B	Diln Fac:	1.000
Lab ID:	219511-008	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Barium	34	5.0	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Chromium	1,200	5.0	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Copper	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Nickel	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Thallium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Zinc	ND	20	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-3	Diln Fac:	1.000
Lab ID:	219511-010	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Barium	190	5.0	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Chromium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Copper	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Nickel	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Thallium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Zinc	20	20	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03		
Field ID:	MW-9	Diln Fac:	1.000
Lab ID:	219511-011	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Arsenic	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Barium	64	5.0	162181	04/19/10	04/20/10	EPA 6010B
Beryllium	ND	2.0	162181	04/19/10	04/20/10	EPA 6010B
Cadmium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Chromium	4,900	5.0	162181	04/19/10	04/20/10	EPA 6010B
Cobalt	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Copper	5.8	5.0	162181	04/19/10	04/20/10	EPA 6010B
Lead	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Mercury	ND	0.20	162085	04/16/10	04/16/10	EPA 7470A
Molybdenum	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Nickel	19	5.0	162181	04/19/10	04/20/10	EPA 6010B
Selenium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Silver	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Thallium	ND	10	162181	04/19/10	04/20/10	EPA 6010B
Vanadium	ND	5.0	162181	04/19/10	04/20/10	EPA 6010B
Zinc	26	20	162181	04/19/10	04/20/10	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	162085
Lab ID:	QC540745	Prepared:	04/16/10
Matrix:	Water	Analyzed:	04/16/10
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	162085
Matrix:	Water	Prepared:	04/16/10
Units:	ug/L	Analyzed:	04/16/10
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC540746	2.500	2.490	100	77-124		
BSD	QC540747	2.500	2.480	99	77-124	0	12

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	162085
Field ID:	ZZZZZZZZZZ	Sampled:	04/14/10
MSS Lab ID:	219495-001	Received:	04/15/10
Matrix:	Water	Prepared:	04/16/10
Units:	ug/L	Analyzed:	04/16/10
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC540748	<0.03335	2.500	2.620	105	53-149		
MSD	QC540749		2.500	2.590	104	53-149	1	19

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC541115	Batch#:	162181
Matrix:	Filtrate	Prepared:	04/19/10
Units:	ug/L	Analyzed:	04/20/10

Analyte	Result	RL
Antimony	ND	10
Arsenic	ND	5.0
Barium	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	5.0
Cobalt	ND	5.0
Copper	ND	5.0
Lead	ND	5.0
Molybdenum	ND	5.0
Nickel	ND	5.0
Selenium	ND	10
Silver	ND	5.0
Thallium	ND	10
Vanadium	ND	5.0
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	162181
Units:	ug/L	Prepared:	04/19/10
Diln Fac:	1.000	Analyzed:	04/20/10

Type: BS Lab ID: QC541116

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	454.1	91	66-129
Arsenic	100.0	96.19	96	78-122
Barium	2,000	1,796	90	80-119
Beryllium	50.00	47.58	95	84-124
Cadmium	50.00	46.29	93	83-121
Chromium	200.0	168.0	84	81-116
Cobalt	500.0	429.3	86	78-115
Copper	250.0	205.8	82	77-115
Lead	100.0	84.91	85	73-124
Molybdenum	400.0	366.3	92	81-120
Nickel	500.0	428.7	86	78-117
Selenium	100.0	93.47	93	74-128
Silver	50.00	45.56	91	71-120
Thallium	100.0	98.73	99	77-124
Vanadium	500.0	434.2	87	81-117
Zinc	500.0	453.4	91	79-120

Type: BSD Lab ID: QC541117

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	459.1	92	66-129	1	15
Arsenic	100.0	97.77	98	78-122	2	14
Barium	2,000	1,832	92	80-119	2	15
Beryllium	50.00	48.43	97	84-124	2	14
Cadmium	50.00	46.86	94	83-121	1	14
Chromium	200.0	173.5	87	81-116	3	14
Cobalt	500.0	433.0	87	78-115	1	14
Copper	250.0	208.9	84	77-115	1	15
Lead	100.0	85.98	86	73-124	1	17
Molybdenum	400.0	374.6	94	81-120	2	11
Nickel	500.0	436.9	87	78-117	2	14
Selenium	100.0	95.93	96	74-128	3	15
Silver	50.00	45.63	91	71-120	0	19
Thallium	100.0	101.0	101	77-124	2	13
Vanadium	500.0	445.0	89	81-117	2	14
Zinc	500.0	455.6	91	79-120	0	16

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03	Analysis:	EPA 6010B
Field ID:	MW-FP1	Batch#:	162181
MSS Lab ID:	219511-001	Sampled:	04/15/10
Matrix:	Filtrate	Received:	04/15/10
Units:	ug/L	Prepared:	04/19/10
Diln Fac:	1.000	Analyzed:	04/20/10

Type: MS Lab ID: QC541118

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<3.290	500.0	423.8	85	53-139
Arsenic	<1.600	100.0	92.79	93	60-140
Barium	41.18	2,000	1,664	81	63-128
Beryllium	<0.4000	50.00	45.78	92	74-130
Cadmium	<1.411	50.00	39.41	79	69-128
Chromium	12.71	200.0	173.2	80	68-122
Cobalt	<1.000	500.0	408.3	82	68-119
Copper	2.182	250.0	202.4	80	61-130
Lead	<1.027	100.0	74.93	75	55-133
Molybdenum	2.385	400.0	331.0	82	70-128
Nickel	16.06	500.0	414.4	80	61-125
Selenium	<2.501	100.0	88.65	89	57-140
Silver	<1.000	50.00	44.16	88	53-132
Thallium	<2.616	100.0	89.11	89	54-133
Vanadium	1.083	500.0	421.8	84	71-124
Zinc	13.93	500.0	448.1	87	58-137

Type: MSD Lab ID: QC541119

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	448.3	90	53-139	6	18
Arsenic	100.0	87.94	88	60-140	5	23
Barium	2,000	1,755	86	63-128	5	21
Beryllium	50.00	44.06	88	74-130	4	15
Cadmium	50.00	37.83	76	69-128	4	14
Chromium	200.0	166.3	77	68-122	4	19
Cobalt	500.0	393.0	79	68-119	4	13
Copper	250.0	194.0	77	61-130	4	19
Lead	100.0	79.51	80	55-133	6	21
Molybdenum	400.0	352.3	87	70-128	6	14
Nickel	500.0	400.2	77	61-125	4	21
Selenium	100.0	89.33	89	57-140	1	24
Silver	50.00	42.50	85	53-132	4	17
Thallium	100.0	86.73	87	54-133	3	24
Vanadium	500.0	407.5	81	71-124	3	16
Zinc	500.0	435.9	84	58-137	3	25

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	162065
Matrix:	Water	Received:	04/15/10
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
MW-FP1	SAMPLE	219511-001	0.02	0.01	1.000	04/15/10 08:30	04/15/10 18:00
MW-FP2	SAMPLE	219511-002	0.03	0.01	1.000	04/15/10 13:34	04/15/10 18:00
MW-FP3	SAMPLE	219511-003	0.18	0.01	1.000	04/15/10 09:00	04/15/10 18:00
MW-FP4A	SAMPLE	219511-004	460	10	1,000	04/15/10 14:35	04/16/10 12:00
MW-FP4B	SAMPLE	219511-005	0.03	0.01	1.000	04/15/10 14:10	04/15/10 18:00
MW-FP5	SAMPLE	219511-006	14	0.40	40.00	04/15/10 13:00	04/15/10 18:00
MW-FP6	SAMPLE	219511-007	15	0.40	40.00	04/15/10 11:35	04/15/10 18:00
MW-FP7B	SAMPLE	219511-008	1.2	0.01	1.000	04/15/10 12:13	04/15/10 18:00
MW-3	SAMPLE	219511-010	ND	0.01	1.000	04/15/10 10:10	04/15/10 18:00
MW-9	SAMPLE	219511-011	5.7	0.10	10.00	04/15/10 10:35	04/15/10 18:00
	BLANK	QC540664	ND	0.01	1.000		04/15/10 18:00

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Hexavalent Chromium

Lab #:	219511	Location:	751-758 Seventh St Oakland CA
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-03	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	MW-FP1	Batch#:	162065
MSS Lab ID:	219511-001	Sampled:	04/15/10 08:30
Matrix:	Water	Received:	04/15/10
Units:	mg/L	Analyzed:	04/15/10 18:00

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC540665		1.000	1.049	105	90-110		
MS	QC540666	0.01730	1.000	1.014	100	85-115		
MSD	QC540667		1.000	1.034	102	85-115	2	59

RPD= Relative Percent Difference

Hydraulic Conductivity
ASTM D 5084
Method C: Falling Head Rising Tailwater

Job No:	360-062	**Boring:**	MW-FP4B	**Date:**	03/11/10
Client:	Baseline Environmental Consulting	**Sample:**		**By:**	MD/PJ
Project:	Y232-03	**Depth, ft.:**	26-26.5	**Remolded:**	

Visual Classification: Grayish Brown Clayey SAND (slightly cemented)(slightly plastic)

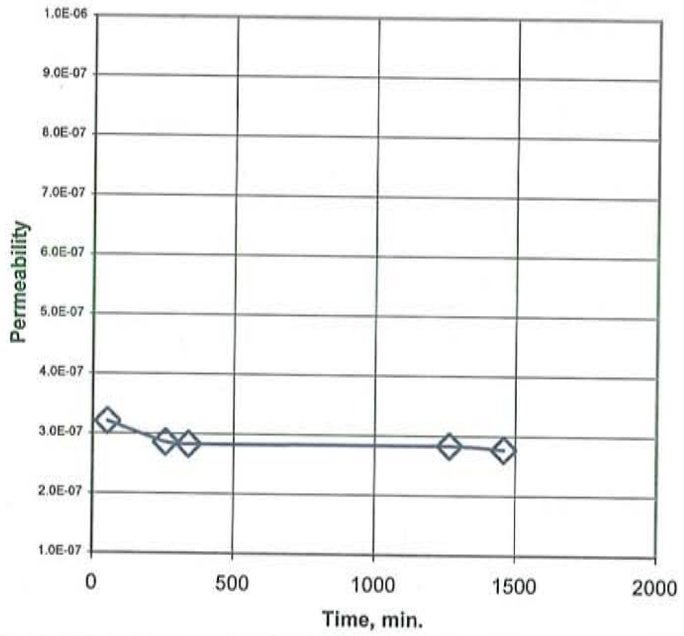
Max Sample Pressures, psi:

Cell:	Bottom	Top	Avg. Sigma3
63.5	59	58	5

B: = >0.95 ("B" is an indication of saturation)

Max Hydraulic Gradient: = 17

Date	Minutes	Head, (in)	K,cm/sec
3/8/2010	0.00	42.69	Start of Test
3/8/2010	53.00	42.09	3.2E-07
3/8/2010	259.00	40.14	2.9E-07
3/8/2010	341.00	39.39	2.8E-07
3/9/2010	1266.00	31.89	2.8E-07
3/9/2010	1459.00	30.49	2.8E-07



Average Permeability: 3.E-07 cm/sec

Sample Data:	Initial	Final
Height, in	2.50	2.47
Diameter, in	2.41	2.41
Area, in2	4.57	4.56
Volume in3	11.41	11.25
Total Volume, cc	187.0	184.3
Volume Solids, cc	113.3	113.3
Volume Voids, cc	73.7	71.0
Void Ratio	0.7	0.6
Total Porosity, %	39.4	38.5
Air-Filled Porosity, %	1.2	0.0
Water-Filled Porosity,%	38.2	38.5
Saturation, %	96.9	100.0
Specific Gravity	2.75	2.75
Wet Weight, gm	383.1	382.7
Dry Weight, gm	311.7	311.7
Tare, gm	0.00	0.00
Moisture, %	22.9	22.8
Dry Density, pcf	104.0	105.5

Remarks:

Specific Gravity by Pycnometer

ASTM D 854m

CTL Job#:	360-062		Project Name:	751-785 Seventh St. Oakland		Date:	03/17/10	
Client:	Baseline Environmental		Project No.:	Y0353-03		Run By:	MD	
						Checked	DC	

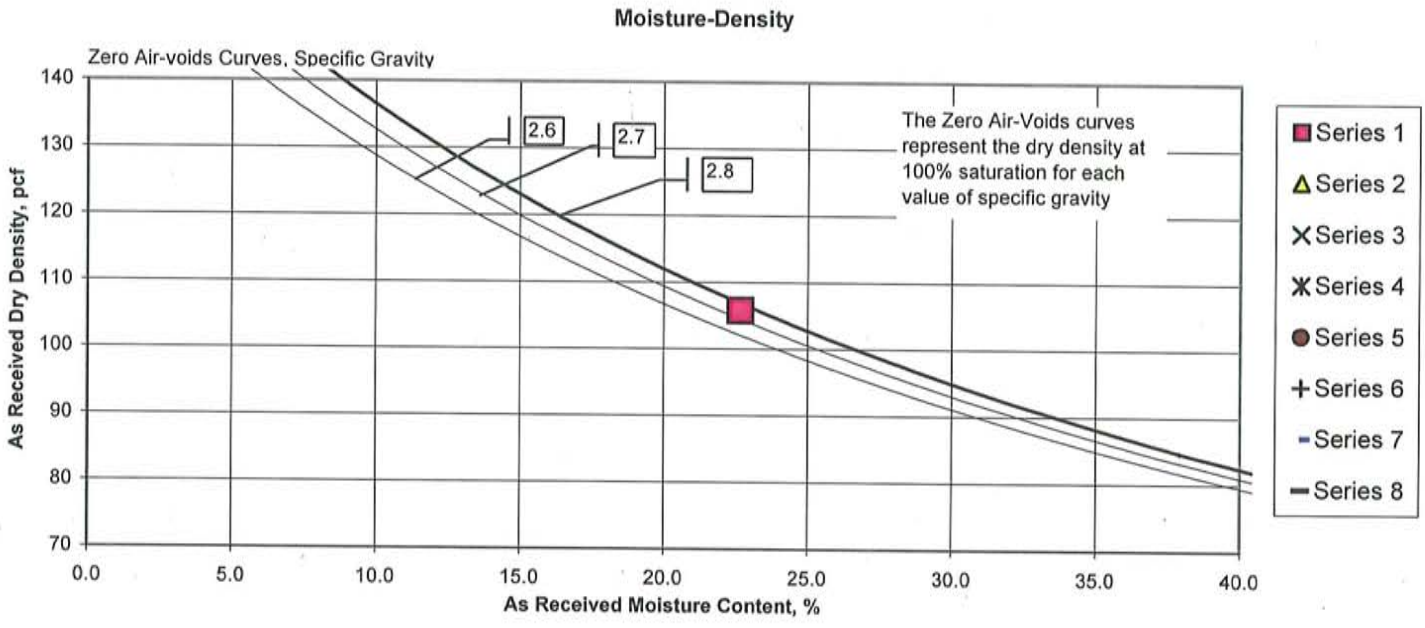
Boring:	MW-FP4B							
Sample:								
Depth, ft.:	26-26.5							
Pan No.:								
Soil Description (visual)	Grayish Brown Clayey SAND (slightly cemented) (slightly plastic)							
Dish No.								
Air-Dry Weight, gm	40.80							
Oven-Dry Weight., gm	40.47							
Dish Weight, gm	11.30							
Hydroscopic MC, %	1.1							
Pycnometer No.:								
Wt Pycn., Soil & H2O (Wb), g	734.0							
Test Temp. (T), °C	21.3							
Wt Pycn. & H2O @ T (Wa), g	662.7							
Wt of Air-Dried Soil (Wm), g	113.32							
Wt of Oven-Dried Soil (Wo), g	112.05							
Temp. Corr. Factor (K)	0.99972							
Specific Gravity (20°C) Gs = K Wo / Wo+Wa-Wb	**2.75**							

Total and Effective Porosity Report
(API RP40 and ASTM D6836m)

Job No: 360-062 Project No.: Y0353-03
Client: Baseline Environmental Date: 3/18/10
Project Name: 751-785 Seventh St. Oakland By: PJ

Boring:	MW-FP4B							
Sample:								
Depth, ft:	26-26.5							
Visual Description:	Grayish Brown Clayey SAND, slightly cemented							
Total Porosity, %	38.4							
Effective Porosity, %	0.7							
Air-filled Porosity, %	0.0							
Water-filled Porosity, %	38.4							
Saturation, %	100.0							
Moisture, %	22.7							
Wet Unit wt, pcf	129.8							
Dry Unit wt, pcf	105.8							
Series	1	2	3	4	5	6	7	8

Note: All reported values above are for the "as received" condition except for the effective porosity which is measured at a tension of 1/3 Bar.



BASELINE Environmental Consulting
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

40232 ON Tube CTL 360-062

3/5

Turn-Around-Time Standard TAT
Laboratory Cooper
BASELINE Contact Person Lydia Huang

Project Number Y0323-03
Project Name: 751 - 785 Seventh St. Oakland

Samplers Signature: Bill Scott

Sample ID No. Station	Date	Time	Media	Containers Type: No.	Stainless Steel	Brass liner	Macrocore	Presv.: Ice	Hydraulic Conductivity (ASTM) D5084	Effective Porosity	Bulk Density
MW-FP4B; 26 - 26.5	3-2-10	9:30	Soil	1	X				X	X	X
MW-FP4B;		9:20	Soil	1	X						

Additional sample if needed

Perm
Descrip.
Grayish - Brn
Silty SAND,
Slightly Cemented

See Attached Special Instr.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks:
			3-4-10 9:47	
Relinquished by: (Signature)	3-4-10 10:55	Dan Martin	3/4/10 1055	Email contact:
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	

Received at laboratory with intact custody seal: Yes No (Na)

Samples conditions Upon Arrival: (Intact) On Ice Cold

Comments:
Note: Samples may contain elevated levels of Cr +6; Protect against dermal and ingestion exposure

Brush st- Soil Lrg.xls