PHASE II
SITE ASSESSMENT REPORT
FOR SITE NO. RO0002610

Site:

SBC CTVYCA60 (P5200) Facility
(formerly Pacific Bell)
2610 Norbridge Ave
Castro Valley, CA 94546

Prepared for:

SBC Communications Inc.
SBC Services Inc.
Attn: Monique Durham
308 S Akard St Three SBC Plaza
Environmental Mgmt Room No.: 900
Dallas, TX 75202-5399

September 19, 2005

Project No. 3034-01

Prepared By:

Seyed Morteza Mortazavi, Ph.D.
Principal Hydrogeologist/Engineer
C.HG. No. 516

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APPENDICES:

1.0 INTRODUCTION

Hydrologue Inc. (HI) was retained by SBC Communications to implement the workplan for a limited Focused Site Assessment at 2610 Norbridge Ave, Castro Valley, CA 94546 (hereinafter referred to as Site).

The Workplan dated March 23, 2005 was prepared and submitted to the Alameda County Department of Environmental Health (ACDEH) based on the ACDEH requirement to conduct a preliminary Site assessment in the proximity of the former underground storage tanks (USTs). After receiving comments from the ACDEH, HI subsequently amended the workplan in a letter dated July 29, 2005. The Workplan and Amendment was approved by the ACDEH in a letter dated August 11, 2005.

1.1 Site Description

The SBC property is located in a predominantly commercial area of Castro Valley, California. The Site is occupied by four buildings. The remainder of the Site is used for equipment storage, and vehicle parking of SBC fleet and personal vehicles.

1.2 Scope of Work

The scope of work as proposed and approved by the ACDEH is as follows**:**

- Utilization of a California Professional Geologist for the field drilling activities.
- Drill one boring (B-4) within the former UST excavation using a CME-type drilling rig, assuming the feasibility of drilling. Drill boring to a depth of 30 feet, or auger refusal, and collect soil samples from natural soil below the backfill at 5-foot intervals for laboratory analysis. If the deepest soil sample is not found to contain detectable concentrations of constituents of concern, the results would demonstrate that constituents have not migrated downward from the tank pit to the underlying bedrock.
- If saturated conditions or indications of water-bearing fractures are encountered in the natural soil/formation beneath the former UST, a well will be constructed with screened interval intercepting the water bearing zone. Otherwise, upon completion, boring B-4 will be backfilled with a cement-bentonite grout.
- HI will drill two wells **outside** the former UST backfill (MW-2 and MW-3) to a total depth of 20 feet bgs or auger refusal. In the event that refusal is encountered, HI will terminate the well at that depth. Soil samples will be collected every five feet in each of the two borings for laboratory analysis.
- Conversion of these two soil borings into 2-inch groundwater monitoring wells
- Subsequent well development, survey, purging and sampling of the groundwater monitoring wells.
- Preparation of a site assessment report.

2.0 BACKGROUND

2.1 Previous Work

In May 1993, IT Corporation (IT) reported the removal of one 10,000-gallon fiberglass unleaded gasoline underground storage tank (UST). The removal was observed by Pacific Bell (now SBC), IT, the Eden Consolidated Fire Protection District (ECFPD, Inspector Tony Rocha), and the ACDEH, (Mr. Amir Gholami). Said fiberglass UST was subsequently replaced by a 10,000-gallon steel unleaded gasoline UST. IT collected three soil samples (Soil-1 through Soil-3) from the north, northeast, and southern tank pit sidewalls. These samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX). No contaminants were identified from the north and northeast walls. However, 12 parts per million (ppm) TPHg was identified from the southern wall (Soil-3). Therefore, this end of the tank pit was over-excavated approximately 10 feet laterally in the southern direction. Three additional soil samples were collected from this over-excavation (Soil-4 through Soil-6). Because 430 ppm TPHg was detected in soil sample Soil-4, an exploratory trench was excavated another 12 feet southwest of the Soil-4 sample location, to define the extent of TPHg contamination. Confirmatory soil sample, Soil-7, was collected from 6.5-feet bgs. Analysis of this sample did not show any contaminants. A second round of over-excavation was initiated to remove the bulk of soil contamination at the southwest end of the former tank. Three additional confirmatory soil samples, Soil-8 through Soil-10, were collected. Low levels of TPH-g up to 31ppm and 0.35ppm benzene were identified in these soil samples. IT concluded that there was high likelihood that the soil containing petroleum hydrocarbons have all been removed. IT hauled and disposed off-site approximately 250 yards of backfill material to the Browning Ferris Industries (BFI) disposal facility in Livermore, California. On February 2, 1994, four borings were drilled at the site (SB-1 through SB-3, and MW-1). Groundwater monitoring wells were to be constructed in all four borings, however, three borings encountered bedrock material and drill rig refusal prior to encountering groundwater. See Appendix I. Therefore, only one monitoring well, MW-1, was installed. This well was installed in the former tank pit excavation through 16 feet of pea gravel. Borings SB-3 and SB-2 were drilled down to approximately 15-feet bgs before encountering auger refusal in the bedrock. Boring SB-1 was drilled down to approximately 30-feet bgs where it hit refusal in bedrock. No groundwater was observed in soil borings SB-1 through SB-3. Groundwater, however, was encountered in MW-1 at approximately 6.5-feet bgs. Well MW-1 is screened from 6 to 16-feet bgs. No hydrocarbon odor was noted in any of the borings, and no detectable concentrations registered on the Organic Vapor Meter. Soil samples were collected from borings SB-1 through SB-3 from approximately 7.5-feet bgs. Analysis of these samples for TPHg and BTEX did not identify any contaminants above detection limits. Groundwater samples were collected from Well MW-1 for four quarters. Analysis of these samples for TPHg only identified up to 74 parts per billion (ppb) TPHg and no BTEX to date.

Based on the work completed by IT, the ACDEH in a letter dated May 29, 1996 granted closure for the Site (Appendix H). The ACDEH noted the following in their findings

1. The site is ready for closure.
2. The low levels of TPHg and BTEX remaining in the soil and groundwater do not appear to pose a human health threat, based on American Society for Testing and Materials' Risk-Based Corrective Action (ASTM RBCA) guidelines.

3. The groundwater samples never identified BTEX, which are the, most threatening components of TPHg, and the levels of TPHg identified do not exceed the Central Valley Regional Water Quality Control Board's secondary drinking water standard of 100ppb.
4. The groundwater from MW-1 is limited perched water, due to the observed bedrock beneath the site and the fact that no water was encountered in the borings SB-1 through SB-3.

In December 2003, Shaw Environmental Inc (Shaw) was retained by SBC to remove one 10,000-gallon gasoline UST (*UNDERGROUND STORAGE TANK REMOVAL REPORT, Shaw February 2004*, see Appendix J). Shaw reported that there were no petroleum hydrocarbon odors observed nor was any staining evident during excavation activities. Shaw encountered water at a depth of approximately 10 feet below ground surface (bgs) in the excavation. Shaw collected soil and water samples from the UST excavation and analytically tested the soil and water samples for the following analytes:

- Total petroleum hydrocarbons as gasoline (TPH-g) using EPA Method 8015(m).
- Benzene (B), Toluene (T), Ethylbenzene (E), and Total Xylenes (X) using EPA Method 8260B (collectively BTEX).
- 5 Oxygenates: Methyl-t-butyl ether (MtBE), Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (EtBE), Tert-amyl methyl ether (TAME), and Tert-butanol (TBA) using EPA Method 8260B.
- 1, 2-Dibromoethane (EDB), and 1,2-Dichloroethane (EDC) using EPA Method 8260B (Lead Scavengers)
- Total lead using EPA Method 6010C and organic lead using CA T22.

B, T and X were detected in the water sample at concentrations of 0.57 ppb, 0.57 ppb, and 1.0 ppb, respectively. MTBE and TBA were detected in the water sample at 24 ppb and 16 ppb, respectively. Total lead was detected at 6.6 ppb. TPH-g, E, the remaining fuel oxygenates, Lead Scavengers, and organic lead were not detected in the analytical testing of the water sample.

3.0 DRILLING SOIL BORINGS

On August 22, 2005, HI conducted drilling and soil sampling. A Health and Safety Plan was prepared for this drilling and soil sampling that was kept on-site and followed during drilling operations.

3.1 Pre Drilling

Prior to drilling activities, a Site visit was conducted by a HI Senior Geologist where the locations of proposed borings/groundwater monitoring wells were marked on the ground. Underground Service Alert (USA) was notified to clear the identified investigation locations. Prior to drilling, a health and safety meeting was held, and health and safety issues related to the condition of the Site and drilling activities were discussed with the drilling crew.

3.2 Permits

Well construction Permits No. W2005-0712, W2005-0713 and W2005-0797 were obtained from Alameda County Public Works Agency. Copies of all permits are in Appendix B.

3.3 Sample Collection Procedures

W D C Exploration & Wells of Zamora, California, a C-57 licensed (C-57 # 283326) water well drilling contractor completed all drilling and monitoring well installation activities. Soil drilling and sampling was conducted using a drilling rig equipped with hollow-stem augers and CME Continuous Sampler.

The soil boring MW-2 was sampled at discrete depths and soil samples were collected beginning at approximately 5 feet bgs and at approximately 5-foot intervals thereafter until 15 feet bgs per ACDEH requirements. The soil boring MW-3 was sampled at discrete depths and soil samples were collected beginning at approximately 5 feet bgs and at approximately 5-foot intervals thereafter until 20 feet bgs per ACDEH requirements. Discrete soil samples were collected using an 18-inch long modified California sampler lined with six 2½ x 3-inch new brass liners. The sampler was attached to a down-hole hammer, lowered to the sampling depth, and then was driven 18-inches into the formation. Blow counts per 6-inch of penetration of the sampler were recorded to evaluate the consistency of the formation.

The soil boring B-4 was drilled to a depth of 28 feet, which was also at auger refusal. Soil samples were retained from natural soil below the pea gravel backfill using a CME-type Continuous sampler. Portions of the recovered soil were collected in brass liners at 5-foot intervals for laboratory analysis.

All borings were logged in the field in accordance with the Unified Soil Classification System (USCS) by a HI California registered geologist (Appendix A). The samples were delivered to the laboratory the same day as collected.

The ends of the brass liner were covered with Teflon sheet tape and plastic caps and taped with Arlon tape over the ends. All samples were labeled with sample identification, date and time of sampling and the HI project number, and sealed in Ziploc™ plastic bags. The samples then were immediately placed into an ice chest chilled using crushed ice. Prior to use, all the tubes were washed in a non-phosphate cleanser solution, rinsed with tap water and then final rinsed with distilled water.

3.4 Soil Description

During drilling operations, boring logs were completed for each soil boring. Each log recorded the following sampling information: boring number and location; sample identification number; date and time; sample depth; lithologic description in accordance with the USCS; description of any visible evidence of soil contamination (i.e., odor, staining), and OVM readings. Boring logs are provided in Appendix A.

An organic vapor monitor (OVM) was used for health and safety monitoring and field screening during performance of soil sampling. The data was used as an immediate indicator of volatile organic vapors in subsurface materials. A handheld Mini-RAE 2000-PGM-7600 Photoionizer Detector (PID) calibrated against an Isobutylene gas standard was employed at the Site. The handheld PID displayed VOCs concentration in units equivalent to parts per million (ppm). The instrument was calibrated a minimum of once per day. The OVM used at the site was equipped with lamp energy of 10.6 eV.

For each sampling interval within the borings, the soil contained in the second sleeve from the tip of the sampler was used for headspace analysis to determine if volatile hydrocarbon vapors were emanating directly from the soil using the PID. Each sample was placed in an airtight Ziploc plastic bag. The samples were placed in the sun for approximately 5 minutes and the head space in each Ziploc™ bag was analyzed using the PID. The headspace readings were recorded on the boring logs (Appendix A).

3.5 Subsurface Conditions

Natural Ground

Below approximately 2 feet of fill material, the Site is underlain by brown and grey very stiff material that excavates as sandy or silty clay with some gravel. Subsurface conditions become very hard (weathered bedrock comprised of Joaquin Miller Formation Shale) at a depth of approximately 10 feet. Underlying the former tank pit (depths greater than approximately 17 feet), the bedrock appeared fresh (unweathered), bluish-grey and very hard. Only a thin, sub-vertical healed fracture was observed at approximately 27 feet. There was no other evidence of fractures in the bedrock.

Groundwater

During drilling, groundwater was encountered at a depth of approximately 14 feet bgs in boring MW-2. Weathering and oxidation, indicative of a potential water-bearing zone were also observed in the upper 15 feet at MW-3. Groundwater was encountered in B4 (in the former tank pit) at a

depth of approximately 8 feet.

Since there were no indications of saturated conditions and/or indications of water-bearing fractures in the natural soil/formation beneath the former UST (soil boring B-4), no well was constructed at this location. Therefore, upon completion, soil boring B-4 was backfilled with a cement-bentonite grout.

3.6 Decontamination

All equipment that came into contact with potentially contaminated soil or water was decontaminated consistently as to assure the quality of samples collected. Disposable equipment intended for one-time use was not decontaminated, but packaged for appropriate disposal. Decontamination occurred prior to and after each use of a piece of equipment. All drilling and sampling devices used were decontaminated in a pre-designated area the drill rig using the following procedures:
Non-phosphate detergent and tap water wash, using a brush if necessary

- Tap-water rinse
- Initial deionized/distilled water rinse, and
- Final deionized/distilled water rinse.

3.7 QA/QC Samples

For field quality assurance/quality control (QA/QC) purposes, a field/equipment blank was prepared, along with the collected soil samples. The field/equipment blank used to demonstrate whether the sampling procedures have any positive interference on the analytical results. One field equipment blank water sample was collected. The field equipment blank samples were collected by pouring laboratory-provided organic-free water over decontaminated drilling equipment, such as sampling barrel. The water was collected in laboratory-provided water sampling containers. The aforementioned QA/QC blanks were handled and processed in exactly the same manner as other samples, as described above. Additionally, the laboratory performed matrix spikes, matrix spike duplicates, method blanks, check samples and standards in accordance with the Regional Water Quality Control Board (RWQCB) guidelines to provide a measure of the potential positive interference introduced by the laboratory procedure and analytical testing methods. The containers were handled in the same fashion as other samples (i.e. placed in a cooler with ice and identified on the COC) and delivered to the laboratory for analysis with other samples collected the same day.

3.8 Sample Handling Procedures

Sample containers consisted of new sample containers, brass rings, and laboratory-provided water sample containers for equipment blank samples. To identify and manage samples obtained in the field, a sample label was affixed to each sample container. The sample labels included the following information:

- Project number
- Site name

- Boring number
- Sample identification number
- Sampler's initials, and
- Date and time of collection

Following collection and labeling, samples were immediately placed in a sample cooler for temporary storage. The following protocol was followed for sample packaging:

- Sample containers were placed in clear, plastic, leak-resistant bags prior to placement in the ice chest.
- Ice was placed in leak-resistant plastic bags and included in the coolers to keep samples at a chilled temperature during transport to the analytical laboratory. When ice was used, the drain plug of the cooler was secured with fiberglass tape to prevent melting ice from leaking out of the cooler.
- The chain-of-custody form was placed in a water-resistant plastic bag and taped on the inside of the lid of the cooler.
- Self-adhesive custody seals were not used as the samples were transferred directly from field personnel to laboratory personnel.
- Field notes were used to record the following information during the collection of each sample:
  - Sample identification number
  - Sample location and description
  - Site sketch showing sample location and measured distances
  - Sampler's name(s) Date and time of sample collection
  - Designation of sample as composite or grab
  - Type of sample (i.e., matrix)
  - Type of preservation
  - Field observations and details important to analysis or integrity of samples (e.g., heavy rains, odors, colors, etc.)
  - Instrument readings (e.g., photoionization detector [PID], etc.), Chain-of-custody form numbers and chain-of-custody seal numbers, transport arrangements (courier delivery, lab pickup, etc.), and recipient laboratory(ies).

4.0 MONITORING WELL INSTALLATION

4.1 Drilling of Groundwater Monitoring Well

On the same day of drilling the soil borings, borings MW-2 and MW-3 were converted into groundwater monitoring wells under a HI California Professional Geologist. W D C Exploration & Wells of Zamora, California, a C-57 licensed (# 283326) water well drilling contractor completed the groundwater monitoring well installation using a hollow stem drilling rig (Figure 3).

4.2 Well Construction

Provided below is a description of well construction activities with specific well construction details included in Appendix C.

The soil borings were converted into groundwater monitoring wells which were constructed of a 10-foot long section of flush threaded 2-inch diameter Schedule 40 PVC screen (a 15-foot long screen was used for MW-3) with 0.01-inch slots connected to 5-foot flush threaded 2-inch diameter Schedule 40 PVC casing extending to the surface. The annular space between the borehole and the well screen was backfilled with # 2/12 Monterey Sand to approximately 1 foot above the well screen, followed by 1.5-2 feet of ¼-inch hydrated bentonite pellets. The remaining annular space was sealed using a 1:10 ratio of Portland cement to water with 5% bentonite. The groundwater monitoring wells were completed at the surface by installation of a 8-inch diameter well box with a traffic rated well covers. The well casings were equipped with a water tight lockable cap. All well string materials were steam-cleaned prior to installation.

4.3 Well Survey

A California-licensed land surveyor, Joseph Brajkovich of PLS SURVEYS, INC. (PLS # 5254) of Oakland, California, surveyed the locations and Top-of-Casing (TOC) elevations for all groundwater monitoring wells on September 12, 2005. The survey was completed using a benchmark as control. See Appendix C for details.

4.4 Well Development

The wells were first developed under observation of a HI geologist on the day of the drilling after installing the filter pack but before placing the seal by the drilling rig crew. A surge block was used to force water through the well screen; a pump was used to "over pump" sections of the well screen; and a bailer was used to remove large volumes of water from the well and to move water through the well screen.

Surging and bailing continued until the produced water was free of visible sediment and the pH, temperature, and specific conductance of the produced water had stabilized. Stabilization of the physical parameters indicated that water in the groundwater monitoring well was representative of the water in the formation. Development continued until at least five casing volumes were

removed, sediment was reasonably cleared from the well, and the turbidity of the development water was low.

On September 13, 2005, groundwater monitoring wells were again developed by pumping a minimum of 5 to 10 well volumes of groundwater using a Whale Supersub 921 submersible pumping system. Development continued until at least 5 to 10 casing volumes were removed, sediment was reasonably cleared from the well, and the turbidity of the development water was low.

5.0 GROUNDWATER MONITORING

Groundwater monitoring field activities were conducted on September 13, 2005.

5.1 Existing Wells

On February 2, 1994, groundwater monitoring well MW-1 was installed by IT. This well was installed in the former tank pit excavation through 16 feet of pea gravel. Wells MW-2 and MW-3 were installed by HI in 2005 to total depths of 15 feet bgs and 20 feet bgs respectively. The installation date of observation well OW-1 is unknown. OW-1 was presumably installed as a "backfill well" to a depth of 8 feet bgs.

5.2 Groundwater Gauging

Upon arrival onsite all wells were opened and enough time was allowed for the groundwater table in the wells to equilibrate prior to collection of water levels and initiation of purging.

Prior to initiation of well purging activities, the depth to groundwater was measured in onsite groundwater monitoring wells OW-1, and MW-1 through MW-3 with a water interface probe with divisions allowing measurements to the nearest 0.01 foot. No evidence of floating free-phase liquid hydrocarbons (FPLH) was detected in any of the groundwater monitoring wells gauged during this groundwater monitoring event. Groundwater depths were also measured after completion of well purging activities and prior to initiation of groundwater sample collection. Water levels are reported in feet below Top of Casing (TOC) that were used to calculate the groundwater surface elevation in feet above Mean Sea Level (MSL).

The interface probe and associated measuring tape were washed in a solution of warm tap water and a non-phosphate detergent and rinsed with de-ionized water prior to, and between, groundwater monitoring wells to reduce the possibility of cross-contamination.

Groundwater elevations in the groundwater monitoring wells ranged from approximately 166.14 feet above MSL to 166.71 feet above MSL during this groundwater-monitoring event. The groundwater elevation in OW-1 was not used, since the well OW-1 was installed as backfill well and HI does not have any information on the well construction details. The groundwater flow direction was toward the east with a calculated hydraulic gradient of 0.012 foot/foot. A groundwater map is included as Figure 4 and a summary of water level measurements and groundwater elevations is presented in Table 1.

5.3 Groundwater Purging and Sampling Activities

Prior to groundwater sampling, approximately four well-bore volumes of groundwater was purged from each well using the Whale Model 921 12-Volt DC submersible pump (Pumping System). During purging, temperature, pH, and conductivity of the purged groundwater were monitored over time and recorded on groundwater purging and sampling logs (Appendix F). Stabilization of these physical parameters indicated that groundwater in each well was representative of groundwater in

the formation. A groundwater sample was collected after the water column in the wells had recovered to at least 80 percent of its initial height.

The Pumping System was decontaminated prior to purging each monitoring well to reduce the possibility of cross-contamination. The pumping system and its associated discharge hose were decontaminated by placing the pump in a 5 gallon bucket containing tap water and a non-phosphate cleanser and then by placing the pump in a 5 gallon bucket containing distilled water. Once the submersible pump had displaced water from the buckets, the exterior of the hose and the reel were also rinsed with distilled water. The pump, discharge hose, and electrical cable were also rinsed with deionized water. This procedure was performed to ensure that the interior and exterior of the hose and electrical cable attached to the pump were properly decontaminated.

Following well purging activities, groundwater sampling of all on-site monitoring wells was accomplished by lowering a new, disposable polyethylene bailer approximately 2-feet into the water column of each well. After retrieval of the bailer, a flow control device was inserted into the bottom of the bailer allowing a groundwater sample to be transferred into laboratory supplied sample containers.

Groundwater samples were collected in 40 milliliter Volatile Organic Analyzer (VOA) vials. All sample containers were examined to ensure that no head-space remained after sampling. The pre-cleaned sample containers containing appropriate preservatives for analytical testing were supplied by the laboratory conducting the analytical testing. The samples were sealed, labeled with the sample identification, date, time of sampling and the HI project number. They were then placed in bubble wrap and immediately placed into a chilled ice chest containing frozen blue and crushed ice.

5.4 Field Quality Assurance/Quality Control

For field Quality Assurance/Quality Control (QA/QC) purposes, equipment blank (QCEB) samples were prepared along with the collected groundwater samples. The equipment blank sample was obtained after decontamination activities by pouring ultra-pure, de-ionized water over the pump. A water sample was collected using, to the extent feasible, the same sampling protocol and equipment used to obtain the other samples. The aforementioned QA/QC blank samples were handled and processed in exactly the same manner as regular samples, as described above. Additionally, the laboratory performed matrix spikes, matrix spike duplicates, method blanks, check samples and standards in accordance with the RWQCB guidelines to provide a measure of the positive interference introduced by the laboratory procedure and analytical testing methods.

The laboratory was not informed about the true identity of the field QA/QC samples. The field/equipment blank was identified as QCEB.

6.0 WASTE EFFLUENT HANDLING

All soil cuttings, drilling waste, purge effluent water generated during this investigation were sealed in 55-gallon steel drums that meet Department of Transportation (DOT) standards for hazardous material transport. Effluent generated during groundwater monitoring well development, purging, and sampling was sealed in 55-gallon steel drums meeting DOT standards for hazardous material transport. Each drum was labeled with the groundwater monitoring well number, date of generation, Site address, project name and name and telephone number of the client representative. The drums were subsequently stored in the corner of the parking lot. Based on the analytical results from this groundwater monitoring episode, SBC has made arrangements for disposal off-site the waste with Romic Environmental (Appendix H).

7.0 LABORATORY ANALYSIS

The samples collected were analytically tested offsite by Kiff Analytical (Kiff) using a regular turn-around-time. Kiff is State certified for hazardous waste testing (Certification No. 2236).

The soil, groundwater samples and the field/equipment (QA/QC) sample QCEB were analytically tested for:

- Total petroleum hydrocarbons as gasoline (TPH-g) using EPA Method 8015(m).
- Benzene (B), Toluene (T), Ethylbenzene (E), and Total Xylenes (X) using EPA Method 8260B (collectively BTEX).
- 5 Oxygenates: Methyl-t-butyl ether (MtBE), Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (EtBE), Tert-amyl methyl ether (TAME), and Tert-butanol (TBA) using EPA Method 8260B.
- 1, 2-Dibromoethane (EDB), and 1,2-Dichloroethane (EDC) using EPA Method 8260B (Lead Scavengers).
- The County does not require the collection and preservation of soil samples using EPA Method SW5035.
- Since the ACDEH has not issued a GeoID for this site, the analytical testing COELT/ EDF data could not been uploaded to the Geotracker website in compliance with AB2886 requirements. Written requests were made for the ACDEH to issue a new GeoID on August 31, 2005 and July 15, 2005 (Appendix G).

8.0 ANALYTICAL TESTING RESULTS

8.1 Soil Samples

The analytical testing results for soil samples collected from B-4, MW-2 and MW-3 during performance of investigation activities are summarized below:

- No TPH-g, BTEX, MTBE DIPE, ETBE, TAME, TBA, EDB, and EDC were detected above detection limits in any of the soil samples collected.

TABLE 2
Analytical Testing Results for Soil Samples
August 22, 2005

Sample	Benzene	Toluene	Eth. Ben.	Xylenes	TPH-g	MTBE	OTHER VOCs *
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
MW2d5	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005
MW2d10	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005
MW2d15	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005
MW3d5	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005
MW3d10	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005
MW3d15	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005
MW3d20	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005
B4d18	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005
B4d23	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005
B4d28	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005

* Other VOCs Include DIPE, ETBE, TAME, TBA, EDB, and EDC

No analytes were encountered in the QA/QC field equipment samples. A copy of the original laboratory report is provided in Appendix D. Analytical results of laboratory QA/QC samples, which include matrix spike/matrix spike duplicates, check blank, method blanks, continuing calibration verification, laboratory control sample/laboratory control sample duplicate, calibration standards, and reference standards, are also found in the laboratory reports and generally fall within acceptable ranges.

A copy of the original laboratory report is provided in Appendix D.

8.2 Groundwater Samples

The analytical testing results from the groundwater samples collected during the groundwater monitoring event are summarized below:

- No TPH-g, MTBE, BTEX, DIPE, ETBE, TAME, TBA, EDB, and EDC were detected above detection limits in any of the water samples collected, except for minor MTBE at 0.65 µg/L slightly above the detection limit detected only in well MW-1. This level was significantly below the California State Department of Health Services (DHS) maximum contaminant levels (MCLs) for drinking water of 13 µg/L.

Previously, on July 19, 2005 well MW-1 and observation well OW-1 were sampled by HI and analyzed for TPH-g, BTEX, MTBE and fuel oxygenates. Only low concentrations of MTBE were detected in both MW-1 and OW-1 at 0.84 and 0.67 ppb, respectively. No other concentrations of TPH-g, MTBE, BTEX, DIPE, ETBE, TAME, TBA, EDB, and EDC were detected above the method detection limits.

A copy of the original laboratory report is provided in Appendix E.

9.0 INVESTIGATION SUMMARY

- One soil boring B-4 was drilled within the former UST excavation using a CME-type continuous sampler. The boring was drilled to a depth of 28 feet (auger refusal). Soil samples were collected at depths of 18, 23 and 28 feet bgs from natural soil below the backfill at 5-foot intervals for laboratory analysis. Since there were no indications of saturated conditions and/or indications of water-bearing fractures encountered in the natural soil/formation beneath the former UST, no well was constructed. Therefore, upon completion, boring B-4 was backfilled with a cement-bentonite grout.

- Two soil borings (MW-2 and MW-3) were drilled to a termination depth of 15 and 20 feet bgs respectively using hollow stem auger drilling. Soil samples were collected at five feet intervals in from each boring until the termination depth of each boring.

- Soil borings MW-2 and MW-3 were converted into a groundwater monitoring wells (MW-2 and MW-3). The installed groundwater monitoring wells were then surveyed by a licensed surveyor, developed, and sampled.

- Soil Sample Results:
  - **No** TPH-g, BTEX, MTBE DIPE, ETBE, TAME, TBA, EDB, and EDC were detected above detection limits in any of the soil samples collected.

- Groundwater Sample Results:
  - **No** TPH-g, MTBE, BTEX, DIPE, ETBE, TAME, TBA, EDB, and EDC were detected above detection limits in any of the groundwater samples collected, except for minor MTBE at 0.65 µg/L slightly above the detection limit detected only in well MW-1. This level was consistent with previous sampling results of MW-1 and OW-1 and significantly below the DHS MCLs for drinking water of 13 µg/L.

10.0 CONCLUSIONS AND REQUEST FOR REGULATORY CLOSURE

One soil boring B-4 was drilled within the former UST excavation using a CME Continuous Sampler. The boring was drilled to a depth of 28 feet, and auger refusal. Soil samples were collected at depths of 18, 23 and 28 feet bgs from natural ground below the backfill at 5-foot intervals for laboratory analysis. The ACDEH had previously agreed (Appendix G- July 29, 2005 Amendment), that if the deepest soil sample is not found to contain detectable concentrations of constituents of concern, the results would demonstrate that constituents have not migrated downward from the tank pit to the underlying bedrock. Here, none of the soil samples have concentrations of TPH-g, BTEX, MTBE DIPE, ETBE, TAME, TBA, EDB, and EDC above detection limits. Therefore, the soil sampling and analytical testing results have demonstrated that there is no evidence of any petroleum hydrocarbon release from the UST removed in 2003.

This Site was previously granted **closure** by the ACDEH in a letter dated May 29, 1996. In the closure package, the ACDEH has stated that the "groundwater samples never identified BTEX, which are the most threatening components of TPHg and the levels of TPHg identified do not exceed the Central Valley Regional Water Quality Control Board's secondary drinking water standard of 100ppb".

The Site is underlain by very dense material that excavates as sandy or silty clay with some gravel. Subsurface conditions become very hard (weathered bedrock comprised of Joaquin Miller Formation Shale) at a depth of approximately 10 feet. Underlying the former tank pit (depths greater than approximately 17 feet), the bedrock appeared fresh (unweathered), bluish-grey and very hard. Only a thin, sub-vertical healed fracture was observed at approximately 27 feet. There was no other evidence of fractures in the bedrock. The subsurface lithology below the former UST is not very conducive for contaminant migration.

No FPLH or hydrocarbon sheen was encountered during the subsurface investigation(s) and groundwater sampling.

The analytical testing results for the samples collected during this and previous investigations demonstrate that there is no indication of any significant hydrocarbon impact to either soil or groundwater.

Based on the information contained herein, on behalf of SBC, HI hereby respectfully request that site closure be granted.

11.0 LIMITATIONS

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities. The findings and conclusions presented herein are based primarily upon the analyses of test results from the soil and/or water and/or air samples during this study. This report has been prepared exclusively for SBC Communications (CLIENT) for the subject site at a specific point in time, and hence it DOES NOT contain sufficient information for other parties or other uses. No third party shall have the right to rely on HI's opinions rendered in connection with this report without HI's written consent. This report shall not create any rights or benefits to parties other than CLIENT and HI. The conclusions and recommendations included in this report are based on information contained or referenced herein, and our best judgment. No other warranty, expressed or implied, is made as to the professional advice contained in this report. No right or interest in the contract associated with this report may be assigned by either HI or CLIENT without the written permission of the other party, and any attempted assignment shall be wholly void and totally ineffective for all purposes. No delegation of any duty owed by either HI or CLIENT may be made without the written permission of the other party. This report is prepared subject to the terms and conditions in the contract related to this report and which was expressly negotiated, agreed to and acknowledged by CLIENT.

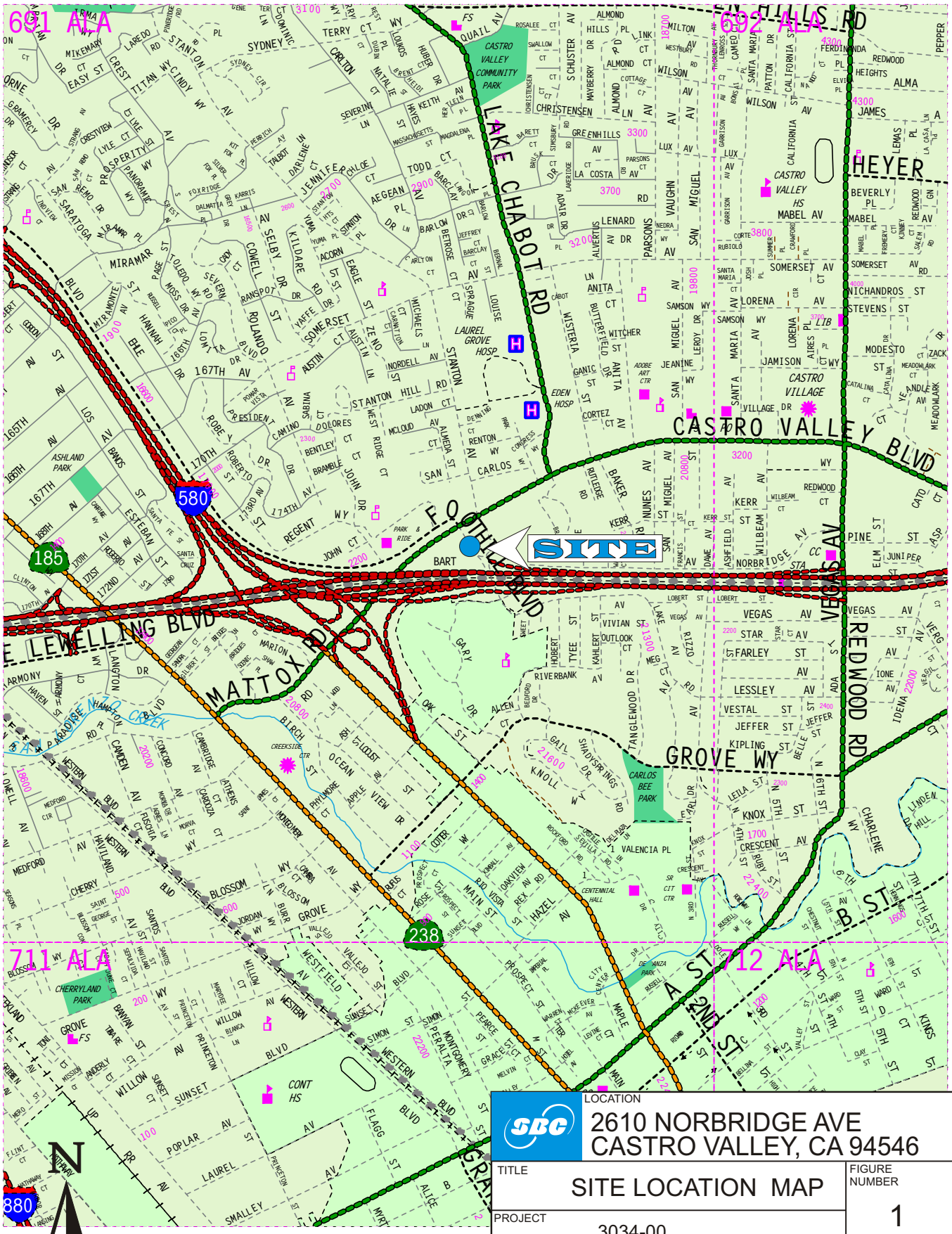
12.0 REPORTING REQUIREMENTS

This report entitled *PHASE II SITE ASSESSMENT REPORT* dated September 19, 2005 should be submitted by SBC to the following agencies:

MR. AMIR GHOLAMI Hazardous Materials Specialist Alameda County Environmental Health 1131 Harbor Bay Parkway Ste 250 Alameda, CA 94502 510-567-6876 (direct)	

\\triton\projects\REPORTS\SBC\Castrova\Phase2\Phase II Report.doc

FIGURES

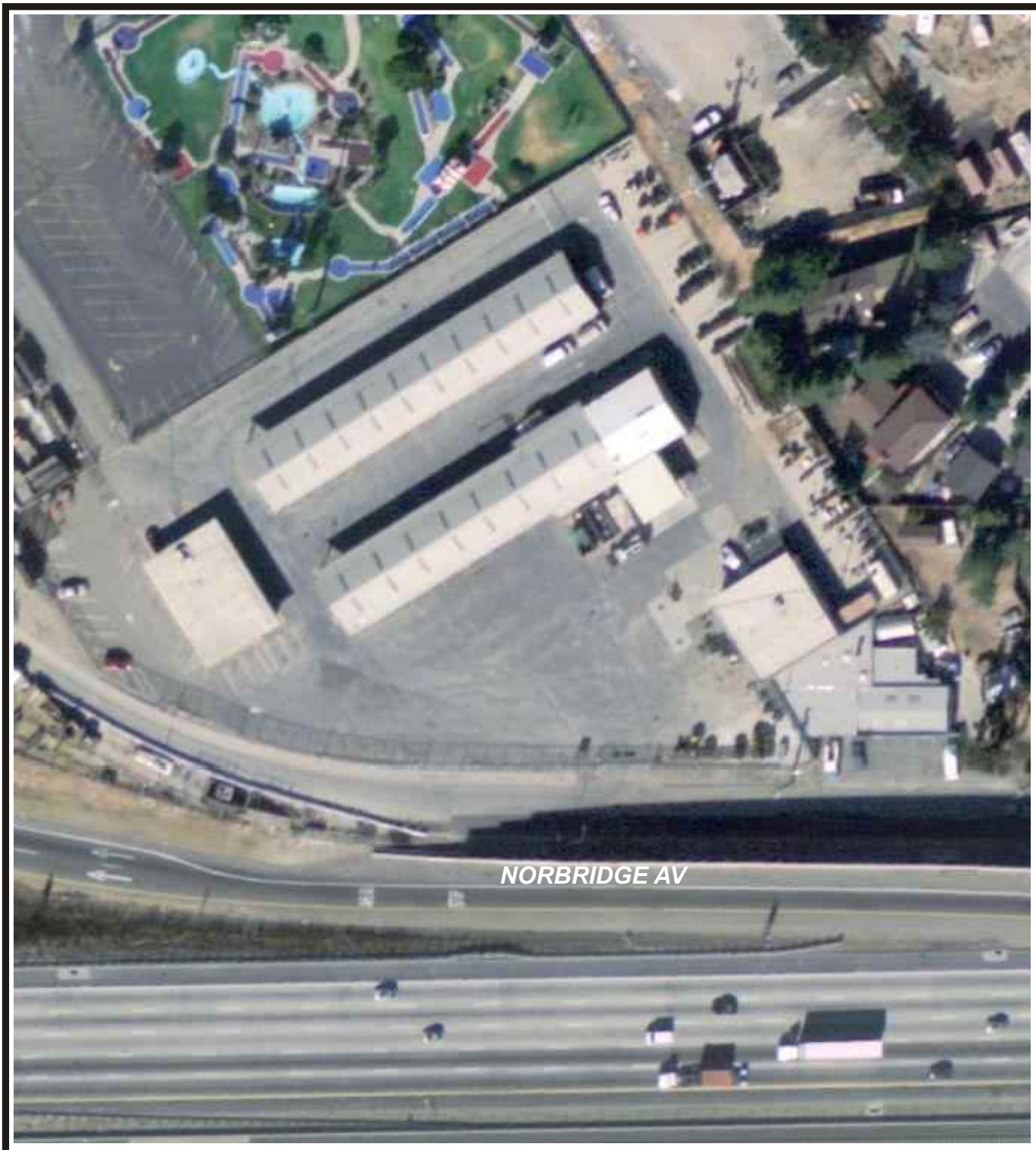


(C) 2001 Thomas Bros Map.

LOCATION
2610 NORBRIDGE AVE
CASTRO VALLEY, CA 94546

TITLE	FIGURE NUMBER
SITE LOCATION MAP	1
PROJECT	
3034-00	

hydrologue, Inc.
Consulting Engineers & Geologists



N

Microsoft Research USGS

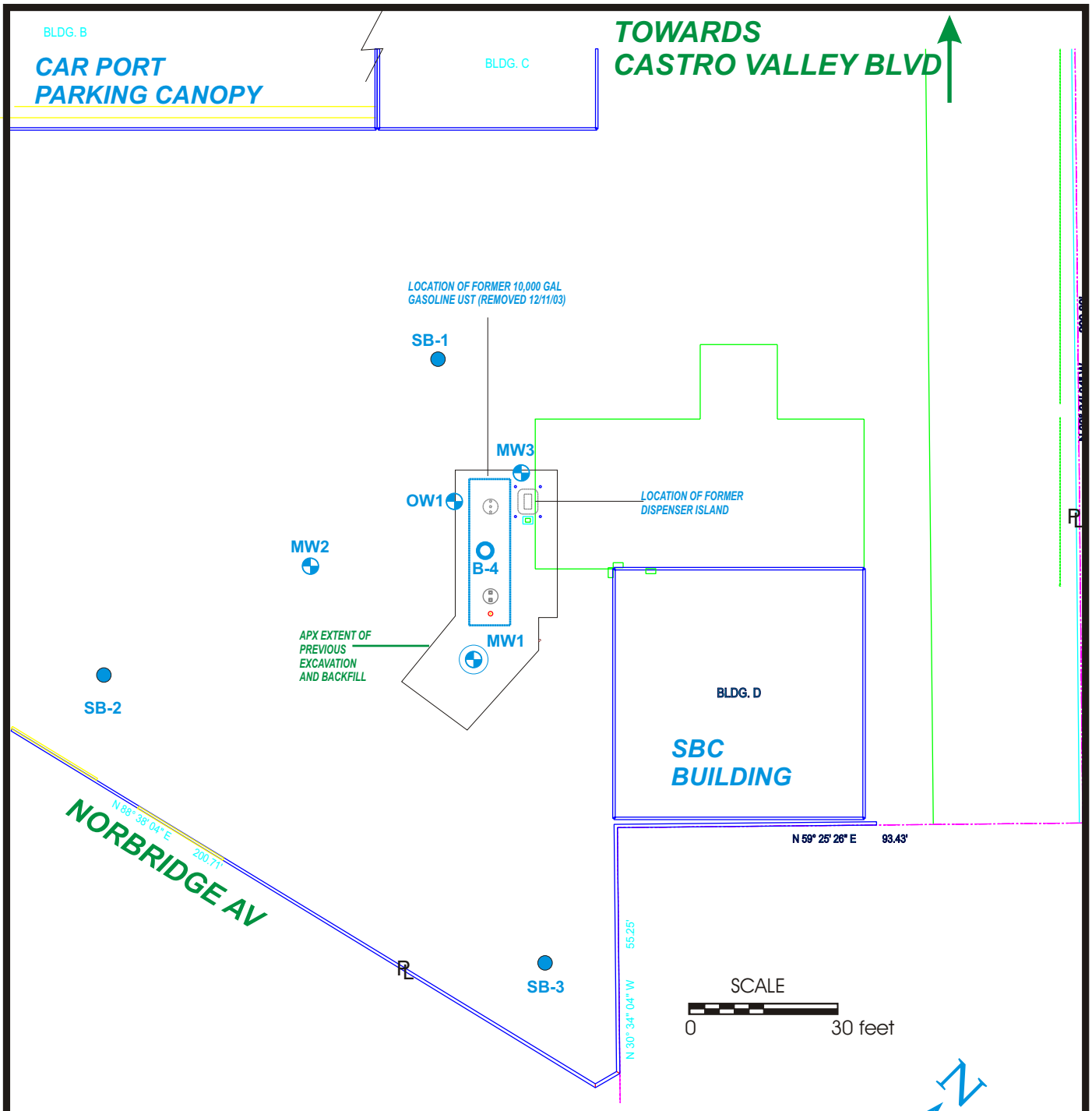
Image courtesy of the U.S. Geological Survey

SBC

LOCATION
2610 NORBRIDGE AVE
CASTRO VALLEY, CA 94546

TITLE	FIGURE NUMBER
AERIAL MAP	2
PROJECT 3034-00	

hydrologue, Inc.
Consulting Engineers & Geologists



MW2 & MW3 — GROUNDWATER MONITORING WELL (HI, 2005)

MW1 — EXISTING GROUNDWATER MONITORING WELL (IT, 1994)

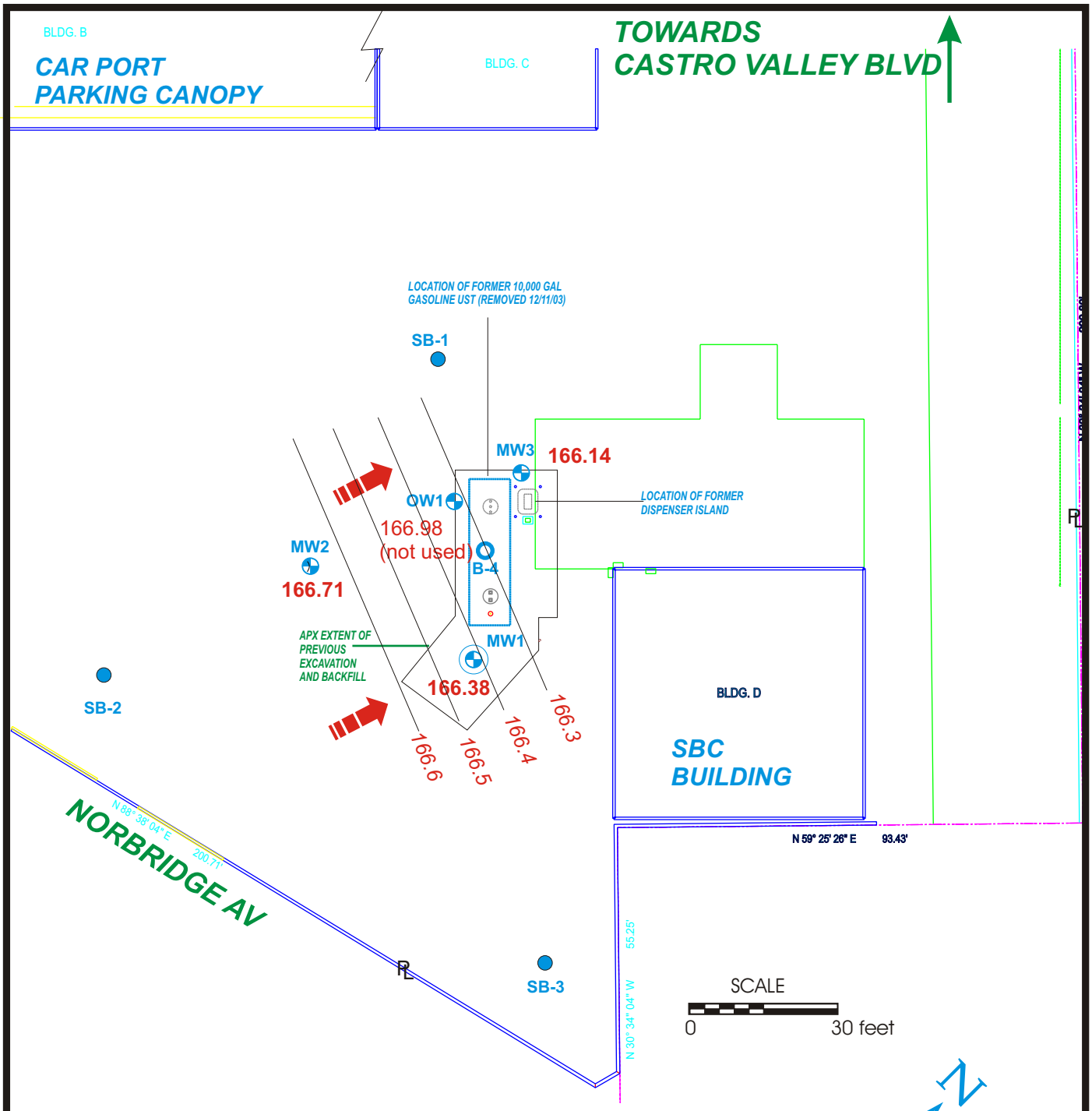
OW1 — OBSERVATION WELL INSTALLED IN OLD UST BACKFILL

B-4 — SOIL BORING BELOW FORMER UST (HI, 2005)

SB-1 — SOIL BORING (IT, 1994)

CLIENT: SBC	LOCATION: 2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546
TITLE: SITE PLAN	FIGURE NUMBER: 3
PROJECT: 3034-00	

hydrologue, Inc.
Consulting Engineers & Geologists



MW2 & MW3 — GROUNDWATER MONITORING WELL (HI, 2005)

MW1 — EXISTING GROUNDWATER MONITORING WELL (IT, 1994)

OW1 — OBSERVATION WELL INSTALLED IN OLD UST BACKFILL

B-4 — SOIL BORING BELOW FORMER UST (HI, 2005)

SB-1 — SOIL BORING (IT, 1994)

26.4 — GROUNDWATER ELEVATION CONTOUR (feet above MSL)

DIRECTION OF LOCAL GROUNDWATER FLOW

CLIENT	SBC
LOCATION	2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546
TITLE	GROUNDWATER MAP SEPTEMBER 13, 2005
FIGURE NUMBER	4
PROJECT	3034-00

hydrologue, Inc.
Consulting Engineers & Geologists

APPENDIX A

Boring Logs

hydrologue, Inc.
Consulting Engineers and Geologists

NOTE: DATA PRESENTED IN THIS LOG IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED AND APPLIES ONLY AT THE SPECIFIC LOCATION AND TIME INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS OR TIMES.

Project: **SBC-Castro Valley**	Location: **2610 Norbridge Avenue, Castro Valley, CA**	Project #: 3034-00
Logged By: RO	Start/Finish Date: 8-22-05	Boring I.D.: MW-2
1st Water Table (bgs):	Sampling Method (bgs): CA Modified Split Spoon	PID:
Last Water Table (bgs):	Wt. of Hammer (lb): #140 Hole Diameter: **8”**	Elevation:
Rig Type: CME	Drilling Contractor: WDC	Weather:

Depth (ft.)	Sample Interval	Blow Count	Time	PID (ppm)	Lithology	USCS	Lithologic Description (Soil classification, Color, Grain Size, Moisture, Consistency, Other)	Remarks
0							0-4” Asphalt	
						SP	Fill- sand, light brown, fine to medium, moist, dense, some silt and gravel	
						CL	Natural ground- sand clay, dark brown-gray, moist, very stif to hard, some angular gravel	
5		10/16/21	10:55	0			@ 7’ becomes very hard, gravelly clay	
10		64 53(3”)	11:10	0			Bedrock: Joaquin Miller Formation Shale; excavates as dry, brown, silty clay with sand; oxidized, weathered	
15		61 73(3”)	11:25	0			More brittle, weathered, wet seams at 14’-14.5’	▽
20							4 bags sand x 100# to 4’ Set 10’ screen 5’-15’ 1 bag bentonite, 1 bag portland cement, then well box in concrete Total Depth Drilled = 15 feet bgs. Total Depth Sampled = 15 Groundwater encountered @14’ No caving. Soil boring was converted into gwm MW-2.	
25								
30								
35								
40								

hydrologue, Inc.
Consulting Engineers and Geologists

NOTE: DATA PRESENTED IN THIS LOG IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED AND APPLIES ONLY AT THE SPECIFIC LOCATION AND TIME INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS OR TIMES.

Project: **SBC-Castro Valley**	Location: **2610 Norbridge Avenue, Castro Valley, CA**	Project #: 3034-00
Logged By: RO	Start/Finish Date: 8-22-05	Boring I.D.: MW-3
1st Water Table (bgs):	Sampling Method (bgs): CA Modified Split Spoon	PID:
Last Water Table (bgs):	Wt. of Hammer (lb): #140 Hole Diameter: **8”**	Elevation:
Rig Type: CME	Drilling Contractor: WDC	Weather:

Depth (ft.)	Sample Interval	Blow Count	Time	PID (ppm)	Lithology	USCS	Lithologic Description (Soil classification, Color, Grain Size, Moisture, Consistency, Other)	Remarks
0							0-6” Asphalt	
						SP	Fill- sand, brown, moist, dense, some clay and gravel	
						CL	Sandy clay, grey-blue, moist, firm to hard, some gravel	
5		12/21/31	12:45	0			2” grey fine sand seam at 5’	
							@ 8’ Sandy clay, brown, slightly moist, very hard, brittle, moderately weathered	
10		21/50	13:00	0			Bedrock - Joaquin Miller Formation Shale; highly weathered	
15		21/36/43	13:15	0			Becomes grey with brown and yellow mottling, more weathered	
20		61/100	13:30	0			Less weathered	
25							No groundwater observed while drilling Set 15’ screen at 5’-20’ 5 bags sand x 100# to 4’ 1 bag bentonite, 1 bag portland cement, then well box in concrete Total Depth Drilled = 20 feet bgs. Total Depth Sampled = 20 No groundwater encountered during drilling No caving. Soil boring was converted into gwm MW-3.	
30								
35								
40								

hydrologue, Inc.
Consulting Engineers and Geologists

NOTE: DATA PRESENTED IN THIS LOG IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED AND APPLIES ONLY AT THE SPECIFIC LOCATION AND TIME INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS OR TIMES.

Project: **SBC-Castro Valley**	Location: **2610 Norbridge Avenue, Castro Valley, CA**	Project #: 3034-00
Logged By: RO	Start/Finish Date: 8-22-05	Boring I.D.: B-4
1st Water Table (bgs):	Sampling Method (bgs): CME Continous Sampler	PID:
Last Water Table (bgs):	Wt. of Hammer (lb): #140 Hole Diameter: **8”**	Elevation:
Rig Type: CME	Drilling Contractor: WDC	Weather:

Depth (ft.)	Sample Interval	Blow Count	Time	PID (ppm)	Lithology	USCS	Lithologic Description (Soil classification, Color, Grain Size, Moisture, Consistency, Other)	Remarks
0						SP	Pea gravel	
15		CME(2’)	16:30	0			Bedrock - Joaquin Miller Formation Shale; excavates as Sandy clay, grey-blue, slightly moist, very hard, fresh	
20		CME(5’)	17:00	0			Thin ¼” to ½” brittle seams at 21-22’, but no indication of water in boring	
25		CME(5’)	17:20	0			Thin 1/8” calcified fracture at 27’-28’ subvertical	
30							Total Depth Drilled = 28’ feet. Groundwater encountered in pea gravel backfill at 8 feet bgs Trimmed grout down augers - 120 gallons Auger Refusal at 28 feet	
35								
40								

APPENDIX B

Well Permits

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: 08/11/2005 By jamesy **Receipt Number: WR2005-2047**
Permits Issued: W2005-0797 **Permits Valid from 08/22/2005 to 08/22/2005**

Application Id: 1123794476699 **City of Project Site:** Castro Valley
Site Location: 2610 Norbridge Avene, Castro Valley, CA 94546
(SBC CTVYCA60, P5200 Facility)
Project Start Date: 08/22/2005 **Completion Date:** 08/22/2005

Applicant: HYDROLOGUE - Chris D'sa **Phone:** 626-585-9696
2793 E Foothill Blvd, Pasadena, CA 91107
Property Owner: Monique Durham (SBC Environmental Mgmt) **Phone:** 214-464-1805
308 S Akard St. #900, Dallas, TX 75202
Client: ** same as Property Owner **

Total Due: $200.00
Total Amount Paid: $200.00
Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Geotechnical Study/CPT's - 2 Boreholes
Driller: WDC Exploration & Wells - Lic #: 283326 - Method: auger **Work Total: $200.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2005-0797	08/11/2005	11/20/2005	2	8.00 in.	35.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

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

4. Applicant shall contact James Yoo for a inspection time at 510-670-6633 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.

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: 07/18/2005 By jamesy **Receipt Number: WR2005-2009**
Permits Issued: W2005-0712 to W2005-0713 **Permits Valid from 08/22/2005 to 08/22/2005**

Application Id: 1121469979788 **City of Project Site:** Castro Valley
Site Location: 2610 Norbridge Avenue, Castro Valley, CA 94546
SBC CTVYCA60 (P5200) Facility
Project Start Date: 08/22/2005 **Completion Date:** 08/22/2005

Applicant: Hydrologue Inc - Hydrologue Inc. **Phone:** 626-585-9696
2793 E Foothill Blvd, Pasadena, CA 91107
Property Owner: SBC Environmental Mgmt **Phone:** 214-464-1805
308 S Akard St. Rm. 900, Dallas, TX 75202
Client: ** same as Property Owner **

Total Due: $600.00
Total Amount Paid: $600.00
Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 2 Wells
Driller: WDC Exploration & Wells - Lic #: 283326 - Method: auger **Work Total: $600.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2005-0712	07/18/2005	11/20/2005	MW2	8.00 in.	2.00 in.	1.50 ft	16.00 ft
W2005-0713	07/18/2005	11/20/2005	MW3	8.00 in.	2.00 in.	1.50 ft	16.00 ft

Specific Work Permit Conditions

1. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well 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.

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

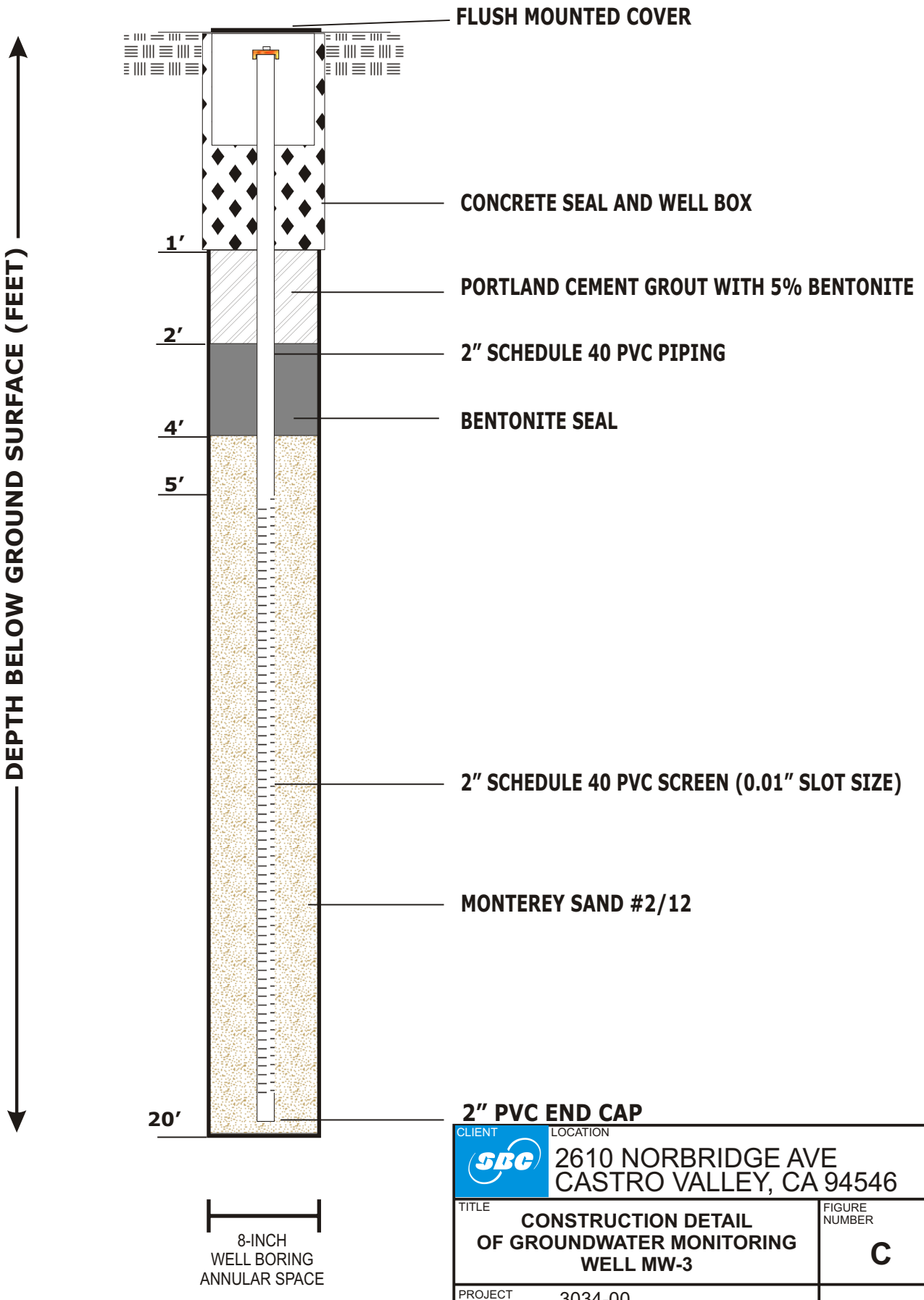
3. Minimum seal depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

4. Applicant shall contact Johnson Tang for a inspection time at 510-670-6450 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.

MW-4 will be on pending status, but you may proceed with the construction or cancel the work during this time (8/22/05). Please notify your Inspector of your intent if the work will be conducted or not during this time period.

APPENDIX C

Well Constructions Detail & Well Survey



CLIENT SBC

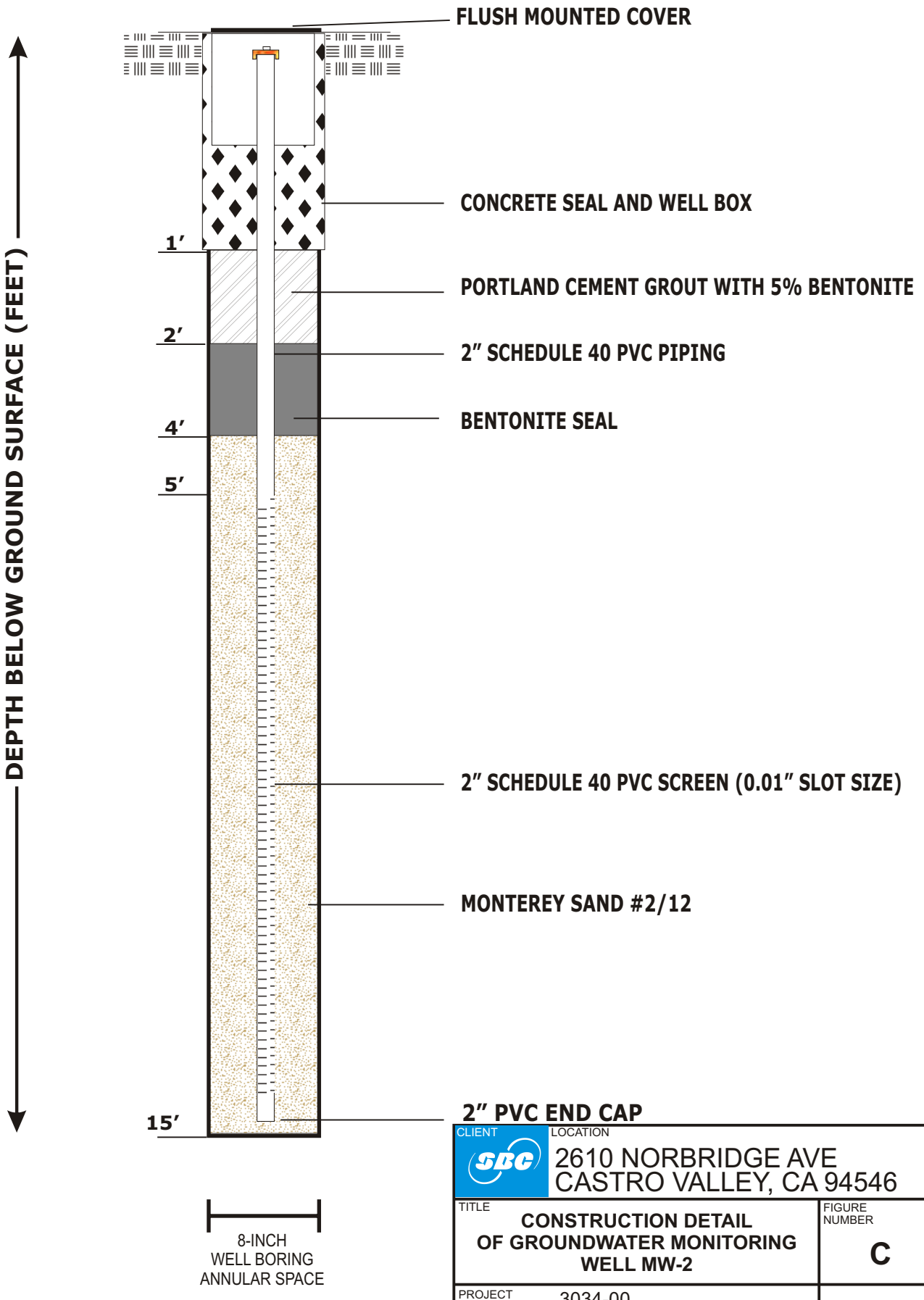
LOCATION
2610 NORBRIDGE AVE
CASTRO VALLEY, CA 94546

TITLE
CONSTRUCTION DETAIL OF GROUNDWATER MONITORING WELL MW-3

FIGURE NUMBER
C

PROJECT 3034-00

hydrologue, Inc.
Consulting Engineers & Geologists



CLIENT SBC

LOCATION
2610 NORBRIDGE AVE
CASTRO VALLEY, CA 94546

TITLE
CONSTRUCTION DETAIL OF GROUNDWATER MONITORING WELL MW-2

FIGURE NUMBER
C

PROJECT 3034-00

hydrologue, Inc.
Consulting Engineers & Geologists

	MW-1	MW	9/12/2005	172.97	DIG	88	0.5	"PLS SURVEYS, INC."
	MW-2	MW	9/12/2005	174.50	DIG	88	0.5	"PLS SURVEYS, INC."
	MW-3	MW	9/12/2005	173.83	DIG	88	0.5	"PLS SURVEYS, INC."
	OW-1	MW	9/12/2005	174.19	DIG	88	0.5	"PLS SURVEYS, INC."

	MW-1	MW	9/12/2005	37.6914069	-122.0871760	STAT	NAD83	3	"PLS SURVEYS, INC."	L530
	MW-2	MW	9/12/2005	37.6915124	-122.0872110	STAT	NAD83	3	"PLS SURVEYS, INC."	L530
	MW-3	MW	9/12/2005	37.6914073	-122.0873039	STAT	NAD83	3	"PLS SURVEYS, INC."	L530
	OW-1	MW	9/12/2005	37.6914778	-122.0872404	STAT	NAD83	3	"PLS SURVEYS, INC."	L530

PLS Surveys, Inc.
510.261.0900
FAX 510.261.3303

e-mail – plssurv@pacbell.net

facsimile transmittal

To: Chris d'Sa Fax: 626 585 0046

From: Hydrologue Date: 9-27-05

Re: Monitoring Wells Pages: 3

CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Per Your Request

Notes:

Chris

"Chabot B" was used for Castro Valley

"HPGN CA 04 07" was used for Pleasanton

Joe Bryfonich

CHABOT B

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.10

1 National Geodetic Survey, Retrieval Date = DECEMBER 8, 2004

2087731.02274
6094039.22824

AI7654 ***

AI7654	DESIGNATION -	CHABOT B			
AI7654	PID -	AI7654			
AI7654	STATE/COUNTY-	CA/ALAMEDA			
AI7654	USGS QUAD -	HAYWARD (1993)			
AI7654					
AI7654		*CURRENT SURVEY CONTROL			
AI7654					
AI7654*	NAD 83(1998)-	37 43 02.71762(N)	122 07 00.46339(W)		ADJUSTED
AI7654*	NAVD 88 -	134.957 (meters)	442.77 (feet)		ADJUSTED
AI7654					
AI7654	EPOCH DATE -	1998.50			
AI7654	X -	-2,685,752.107 (meters)			COMP
AI7654	Y -	-4,278,669.019 (meters)			COMP
AI7654	Z -	3,880,743.727 (meters)			COMP
AI7654	LAPLACE CORR-	2.17 (seconds)			DEFLEC99
AI7654	ELLIP HEIGHT-	102.66 (meters)		(10/30/00)	GPS OBS
AI7654	GEOID HEIGHT-	-32.31 (meters)			GEOID03
AI7654	DYNAMIC HT -	134.866 (meters)	442.47 (feet)		COMP
AI7654	MODELED GRAV-	979,949.6 (mgal)			NAVD 88
AI7654					
AI7654	HORZ ORDER -	B			
AI7654	VERT ORDER -	FIRST CLASS II			
AI7654	ELLP ORDER -	FOURTH CLASS I			

AI7654

AI7654.This is a reference station for the CHABOT BARD
AI7654.National Continuously Operating Reference Station (CHAB).
AI7654
AI7654.The horizontal coordinates were established by GPS observations
AI7654.and adjusted by the National Geodetic Survey in October 2000.
AI7654.This is a SPECIAL STATUS position. See SPECIAL STATUS under the
AI7654.DATUM ITEM on the data sheet items page.
AI7654.The horizontal coordinates are valid at the epoch date displayed above.
AI7654.The epoch date for horizontal control is a decimal equivalence
AI7654.of Year/Month/Day.
AI7654
AI7654.The orthometric height was determined by differential leveling
AI7654.and adjusted by the National Geodetic Survey in July 2002.
AI7654.No vertical observational check was made to the station.
AI7654
AI7654.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AI7654
AI7654.The Laplace correction was computed from DEFLEC99 derived deflections.
AI7654
AI7654.The ellipsoidal height was determined by GPS observations
AI7654.and is referenced to NAD 83.
AI7654
AI7654.The geoid height was determined by GEOID03.
AI7654
AI7654.The dynamic height is computed by dividing the NAVD 88
AI7654.geopotential number by the normal gravity value computed on the
AI7654.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AI7654.degrees latitude (g = 980.6199 gals.).
AI7654

Fallon
& Others

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.07
1 National Geodetic Survey, Retrieval Date = NOVEMBER 3, 2004

2081043.04969
6170996.54967

HS5408 **********
HS5408 CBN - This is a Cooperative Base Network Control Station.
HS5408 DESIGNATION - HPGN CA 04 07
HS5408 PID - HS5408
HS5408 STATE/COUNTY- CA/ALAMEDA
HS5408 USGS QUAD - LIVERMORE (1980)
HS5408
HS5408 *CURRENT SURVEY CONTROL
HS5408
HS5408* NAD 83(1998)- 37 42 08.66403(N) 121 51 01.53627(W) ADJUSTED
HS5408* NAVD 88 - 111.0 (meters) 364. (feet) GPS OBS
HS5408
HS5408 EPOCH DATE - 1998.50
HS5408 X - -2,666,359.520 (meters) COMP
HS5408 Y - -4,291,958.632 (meters) COMP
HS5408 Z - 3,879,410.672 (meters) COMP
HS5408 LAPLACE CORR- 2.24 (seconds) DEFLEC99
HS5408 ELLIP HEIGHT- 78.75 (meters) (04/06/00) GPS OBS
HS5408 GEOID HEIGHT- -32.25 (meters) GEOID03
HS5408
HS5408 HORZ ORDER - A
HS5408 ELLP ORDER - THIRD CLASS I
HS5408

364.17

Fallon

HS5408.ITRF positions are available for this station.
HS5408.The horizontal coordinates were established by GPS observations
HS5408.and adjusted by the National Geodetic Survey in April 2000.
HS5408.This is a SPECIAL STATUS position. See SPECIAL STATUS under the
HS5408.DATUM ITEM on the data sheet items page.
HS5408.The horizontal coordinates are valid at the epoch date displayed above.
HS5408.The epoch date for horizontal control is a decimal equivalence
HS5408.of Year/Month/Day.
HS5408
HS5408.The orthometric height was determined by GPS observations and a
HS5408.high-resolution geoid model.
HS5408
HS5408.The X, Y, and Z were computed from the position and the ellipsoidal ht.
HS5408
HS5408.The Laplace correction was computed from DEFLEC99 derived deflections.
HS5408
HS5408.The ellipsoidal height was determined by GPS observations
HS5408.and is referenced to NAD 83.
HS5408
HS5408.The geoid height was determined by GEOID03.
HS5408

		North	East	Units	Scale Factor	Converg.
HS5408;SPC CA 3	-	634,303.190	1,880,923.510	MT	0.99992954	-0 49 36.4
HS5408;SPC CA 3	-	2,081,043.05	6,170,996.55	sFT	0.99992954	-0 49 36.4
HS5408;UTM 10	-	4,173,419.025	601,337.687	MT	0.99972649	+0 42 11.1

HS5408

		Elev Factor	x	Scale Factor	=	Combined Factor
HS5408!SPC CA 3	-	0.99998764	x	0.99992954	=	0.99991718

APPENDIX D

Laboratory Reports: Soil Borings

KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Chris d'Sa
Hydrologue Inc.
2793 E. Foothill Boulevard
Pasadena, CA 91107

Subject : 10 Soil Samples and 1 Water Sample
Project Name : 2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546
Project Number : SBC/3034

Dear Mr. d'Sa,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **MW2d05.0** Matrix : Soil Lab Number : 45548-01
Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	106		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **MW2d10** Matrix : Soil Lab Number : 45548-02
Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	106		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **MW2d15** Matrix : Soil Lab Number : 45548-03
Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	93.7		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	107		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **MW3d5** Matrix : Soil Lab Number : 45548-04
Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	96.0		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	102		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	96.1		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **MW3d10** Matrix : Soil Lab Number : 45548-05
Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	96.0		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	106		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 45548

Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**

Project Number : **SBC/3034**

Sample : **MW3d15** Matrix : Soil Lab Number : 45548-06

Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	92.9		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	106		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	109		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **MW3d20** Matrix : Soil Lab Number : 45548-07
Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	87.7		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	103		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **B4d18** Matrix : Soil Lab Number : 45548-08
Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	93.4		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	106		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **B4d23** Matrix : Soil Lab Number : 45548-09
Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	96.7		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	82.8		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	106		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45548

Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**

Project Number : **SBC/3034**

Sample : **B4d28** Matrix : Soil Lab Number : 45548-10

Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	8/26/2005
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	95.1		% Recovery	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	90.1		% Recovery	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	99.2		% Recovery	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	8/26/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45548
Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **QCEB** Matrix : Water Lab Number : 45548-11
Sample Date :8/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	8/27/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	8/27/2005
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	8/27/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	8/27/2005
4-Bromofluorobenzene (Surr)	94.9		% Recovery	EPA 8260B	8/27/2005
Dibromofluoromethane (Surr)	104		% Recovery	EPA 8260B	8/27/2005
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	8/27/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45548

Date : 8/30/2005

QC Report : Method Blank Data

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**

Project Number : **SBC/3034**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	8/25/2005
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	8/25/2005
Toluene - d8 (Surr)	98.6		%	EPA 8260B	8/25/2005
4-Bromofluorobenzene (Surr)	96.4		%	EPA 8260B	8/25/2005
Dibromofluoromethane (Surr)	101		%	EPA 8260B	8/25/2005
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	8/25/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/26/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/26/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	8/26/2005
Toluene - d8 (Surr)	103		%	EPA 8260B	8/26/2005
4-Bromofluorobenzene (Surr)	95.7		%	EPA 8260B	8/26/2005
Dibromofluoromethane (Surr)	105		%	EPA 8260B	8/26/2005
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	8/26/2005

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45548

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**

Project Number : **SBC/3034**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	45534-01	<0.0050	0.0398	0.0400	0.0338	0.0339	mg/Kg	EPA 8260B	8/25/05	84.9	84.9	0.0340	70-130	25
Toluene	45534-01	<0.0050	0.0398	0.0400	0.0323	0.0321	mg/Kg	EPA 8260B	8/25/05	81.3	80.3	1.25	70-130	25
Tert-Butanol	45534-01	0.055	0.199	0.200	0.221	0.230	mg/Kg	EPA 8260B	8/25/05	83.7	87.5	4.38	70-130	25
Methyl-t-Butyl Ether	45534-01	<0.0050	0.0398	0.0400	0.0362	0.0365	mg/Kg	EPA 8260B	8/25/05	91.0	91.2	0.220	70-130	25
Benzene	45554-03	<0.50	40.0	40.0	40.5	39.2	ug/L	EPA 8260B	8/26/05	101	98.0	3.30	70-130	25
Toluene	45554-03	<0.50	40.0	40.0	40.9	39.7	ug/L	EPA 8260B	8/26/05	102	99.2	3.02	70-130	25
Tert-Butanol	45554-03	<5.0	200	200	189	191	ug/L	EPA 8260B	8/26/05	94.3	95.6	1.41	70-130	25
Methyl-t-Butyl Ether	45554-03	<0.50	40.0	40.0	37.7	37.1	ug/L	EPA 8260B	8/26/05	94.2	92.7	1.58	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45548

QC Report : Laboratory Control Sample (LCS)

Date : 8/30/2005

Project Name : **2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546**

Project Number : **SBC/3034**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0391	mg/Kg	EPA 8260B	8/25/05	88.4	70-130
Toluene	0.0391	mg/Kg	EPA 8260B	8/25/05	87.2	70-130
Tert-Butanol	0.195	mg/Kg	EPA 8260B	8/25/05	85.3	70-130
Methyl-t-Butyl Ether	0.0391	mg/Kg	EPA 8260B	8/25/05	83.8	70-130
Benzene	40.0	ug/L	EPA 8260B	8/26/05	102	70-130
Toluene	40.0	ug/L	EPA 8260B	8/26/05	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/26/05	98.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/26/05	94.0	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

45548

CHAIN-OF-CUSTODY RECORD FORM

hydrologue Inc.
Consulting Engineers & Geologists

SAMPLING INFORMATION
SIGNATURE
PRINTED NAME Robert Owoc
COMPANY hydrologue Inc.

PROJECT INFORMATION
PROJECT NO 3034 NAME SBC CTVYCA60 (P5200)
ADDRESS 2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546
PROJECT MANAGER CHRIS D'SA

SAMPLE INFORMATION
CONDITION/TEMP°C
TURNAROUND TIME REGULAR

SHIPPING INFORMATION
SHIPPING METHOD
AIRBILL NO.

METHODS: TPH DIESEL 8015M W/SG; TPH GASOLINE 8015; TPH DIESEL RANGE 8015 (m); MTBE/BTEX 8021B; TRPH 418.1; TPH GASOLINE/MTBE/BTEX/ FUEL OXY + 1,2DCA + EDB EPA 8260B; VOCs 624; VOCs 8260B; PCBs 8080; CAM METALS; ORGANIC LEAD DOHS METHOD

SAMPLE MATRIX: S- SOIL W- WATER A- AIR B- BULK
CONTAINER TYPE: SS/B-BRASS SM- SUMMA EN- ENCORE G-GLASS TD-TEDLAR VOA-VIALS

SAMPLE ID	DATE	TIME	DESCRIPTION	TPH GASOLINE/MTBE/BTEX/FUEL OXY + 1,2DCA + EDB EPA 8260B	SAMPLE MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	SPECIAL HANDLING	
MW2d05.0	8/22/05	1055	SOIL SAMPLE	/	S	B	1	ONE BRASS SLEEVE	-01
MW2d10	↓	1110	↓	/	↓	↓	↓	EMAIL RESULTS TO chris@hydrologue.com	-02
MW2d15		1125		/				REPORT ALL RESULTS IN PPB	-03
MW3d5		1245		/					-04
MW3d10		1300		/					-05
MW3d15		1315		/					-06
MW3d20		1330		/					-07
B4d18		1630		/					-08
B4d23		1700		/					-09

Sample Receipt
Temp °C 2.1 Therm. ID# IR-1
Initial op Date 082305
Time 1930 Coolent present: Y / N

RELINQUISHED BY	DATE / TIME	RELINQUISHED BY	DATE / TIME	RELINQUISHED BY	DATE / TIME	REMARKS
SIGNATURE [signature]	8/23/05	SIGNATURE		SIGNATURE		
PRINTED NAME Robert Owoc	TIME 1610	PRINTED NAME	TIME	PRINTED NAME	TIME	
COMPANY hydrologue Inc.		COMPANY		COMPANY		

RECEIVED BY	DATE / TIME	RECEIVED BY	DATE / TIME	RECEIVED BY (LAB)	DATE / TIME
SIGNATURE	DATE	SIGNATURE	DATE	SIGNATURE Osama Albalawi	DATE 082305
PRINTED NAME	TIME	PRINTED NAME	TIME	PRINTED NAME Osama Albalawi	TIME 1650
COMPANY		COMPANY		COMPANY Kiff Analytical 530-297-4800	

45548

CHAIN-OF-CUSTODY RECORD FORM

hydrologue Inc.
Consulting Engineers & Geologists

SAMPLING INFORMATION	PROJECT INFORMATION
SIGNATURE	PROJECT NO. / NAME: 3034 / SBC CTVYCA60 (P5200)
PRINTED NAME: Robert Owoc	ADDRESS: 2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546
COMPANY: hydrologue Inc.	PROJECT MANAGER: CHRIS D'SA
SAMPLE INFORMATION	**SHIPPING INFORMATION**
CONDITION/TEMP°C	SHIPPING METHOD
TURNAROUND TIME: **REGULAR**	AIRBILL NO.

SAMPLE ID	DATE	TIME	DESCRIPTION	METHODS	SAMPLE MATRIX (S-SOIL W-WATER A-AIR B-BULK)	CONTAINER TYPE (SSB-BRASS G-GLASS SM-SUMMA TD-TEDLAR EN-ENCORE VOA-VIALS)	NO. OF CONTAINERS	SPECIAL HANDLING
B4 d 28	8/22/05	1720	SOIL SAMPLE		S	B	1	ONE BRASS SLEEVE
								EMAIL RESULTS TO chris@hydrologue.com
								REPORT ALL RESULTS IN PPB

METHODS: TPH DIESEL 8015M W/SG; TPH GASOLINE 8015; TPH DIESEL RANGE 8015 (m); MTBE/BTEX 8021B; TRPH 418.1; TPH GASOLINE/MTBE/BTEX/ FUEL OXY + 1,2DCA+ EDB EPA 8260B; VOCs 624; VOCs 8260B; PCBs 8080; CAM METALS; ORGANIC LEAD DOHS METHOD

RELINQUISHED BY	DATE	RELINQUISHED BY	DATE	RELINQUISHED BY	DATE	REMARKS
SIGNATURE: Robert Owoc	8/23/05	SIGNATURE		SIGNATURE		
PRINTED NAME: Robert Owoc	TIME	PRINTED NAME	TIME	PRINTED NAME	TIME	
COMPANY: hydrologue Inc.	1650	COMPANY		COMPANY		
RECEIVED BY	**DATE**	**RECEIVED BY**	**DATE**	**RECEIVED BY (LAB)**	**DATE**	
SIGNATURE		SIGNATURE		SIGNATURE: Osama Albalawi	08235	
PRINTED NAME	TIME	PRINTED NAME	TIME	PRINTED NAME: Osama Albalawi	TIME	
COMPANY		COMPANY		COMPANY: Kiff Analytical 530-297-4800	1650	

45548

CHAIN-OF-CUSTODY RECORD FORM

hydrologue Inc.
Consulting Engineers & Geologists

SAMPLING INFORMATION
SIGNATURE
PRINTED NAME: Robert Owoc
COMPANY: hydrologue Inc.

PROJECT INFORMATION
PROJECT NO: 3034
NAME: SBC CTVYCA60 (P5200)
ADDRESS: 2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546
PROJECT MANAGER: CHRIS D'SA

SAMPLE INFORMATION
CONDITION/TEMP°C
TURNAROUND TIME: REGULAR

SHIPPING INFORMATION
SHIPPING METHOD
AIRBILL NO.

SAMPLE ID	DATE	TIME	DESCRIPTION	TPH DIESEL 8015M W/SG	TPH GASOLINE 8015	TPH DIESEL RANGE 8015 (m)	MTBE/BTEX 8021B	TRPH 418.1	TPH GASOLINE/MTBE/BTEX/ FUEL OXY + 1,2DCA+ EDB EPA 8260B	VOCs 624	VOCs 8260B	PCBs 8080	CAM METALS	ORGANIC LEAD DOHS METHOD	SAMPLE MATRIX (S- SOIL W- WATER A- AIR B- BULK)	CONTAINER TYPE (G-GLASS SMP-BRASS SM- SUMMA TD-TEDLAR EN- ENCORE VOA-VIALS)	NO. OF CONTAINERS	SPECIAL HANDLING
QCEB	9/22/05	1840	WATER SAMPLE												W	G	4	4 VOA VIALS WITH ACID -11
																		EMAIL RESULTS TO chris@hydrologue.com
																		REPORT ALL RESULTS IN PPB

RELINQUISHED BY	DATE	RELINQUISHED BY	DATE	RELINQUISHED BY	DATE	REMARKS
SIGNATURE	9/23/05	SIGNATURE		SIGNATURE		
PRINTED NAME: Robert Owoc	TIME	PRINTED NAME	TIME	PRINTED NAME	TIME	
COMPANY: hydrologue Inc.	1450	COMPANY		COMPANY		
RECEIVED BY	**DATE**	**RECEIVED BY**	**DATE**	**RECEIVED BY (LAB)**	**DATE**	
SIGNATURE		SIGNATURE		SIGNATURE Osama Algalawi	092305	
PRINTED NAME	TIME	PRINTED NAME	TIME	PRINTED NAME Osama Algalawi	TIME	
COMPANY		COMPANY		COMPANY Kiff Analytical 530-297-4800	1650	

APPENDIX E

Laboratory Reports: Groundwater Samples

KIFF Analytical LLC

Report Number : 45916
Date : 9/20/2005

Chris d'Sa
Hydrologue Inc.
2793 E. Foothill Boulevard
Pasadena, CA 91107

Subject : 5 Water Samples
Project Name : 2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546
Project Number : SBC/3034

Dear Mr. d'Sa,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 45916

Date : 9/20/2005

Project Name : **2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546**

Project Number : **SBC/3034**

Sample : **MW-1** Matrix : Water Lab Number : 45916-01

Sample Date :9/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Methyl-t-butyl ether (MTBE)	**0.65**	0.50	ug/L	EPA 8260B	9/19/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	9/19/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	9/19/2005
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	9/19/2005
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	9/19/2005
Dibromofluoromethane (Surr)	103		% Recovery	EPA 8260B	9/19/2005
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	9/19/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45916
Date : 9/20/2005

Project Name : **2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **OW-1** Matrix : Water Lab Number : 45916-02
Sample Date :9/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	9/19/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	9/19/2005
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	9/19/2005
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	9/19/2005
Dibromofluoromethane (Surr)	103		% Recovery	EPA 8260B	9/19/2005
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	9/19/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45916
Date : 9/20/2005

Project Name : **2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546**
Project Number : **SBC/3034**

Sample : **MW-2** Matrix : Water Lab Number : 45916-03
Sample Date :9/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	9/19/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	9/19/2005
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	9/19/2005
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	9/19/2005
Dibromofluoromethane (Surr)	102		% Recovery	EPA 8260B	9/19/2005
1,2-Dichloroethane-d4 (Surr)	99.4		% Recovery	EPA 8260B	9/19/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45916

Date : 9/20/2005

Project Name : **2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546**

Project Number : **SBC/3034**

Sample : **MW-3** Matrix : Water Lab Number : 45916-04

Sample Date :9/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	9/19/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	9/19/2005
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene - d8 (Surr)	96.3		% Recovery	EPA 8260B	9/19/2005
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	9/19/2005
Dibromofluoromethane (Surr)	102		% Recovery	EPA 8260B	9/19/2005
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	9/19/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 45916

Date : 9/20/2005

Project Name : **2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546**

Project Number : **SBC/3034**

Sample : **QCEB** Matrix : Water Lab Number : 45916-05

Sample Date :9/13/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	9/19/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	9/19/2005
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	9/19/2005
Toluene - d8 (Surr)	96.2		% Recovery	EPA 8260B	9/19/2005
4-Bromofluorobenzene (Surr)	108		% Recovery	EPA 8260B	9/19/2005
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8260B	9/19/2005
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	9/19/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45916

QC Report : Method Blank Data

Date : 9/20/2005

Project Name : **2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546**

Project Number : **SBC/3034**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/19/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/19/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/19/2005
Toluene - d8 (Surr)	96.1		%	EPA 8260B	9/19/2005
4-Bromofluorobenzene (Surr)	107		%	EPA 8260B	9/19/2005
Dibromofluoromethane (Surr)	99.0		%	EPA 8260B	9/19/2005
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	9/19/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45916

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 9/20/2005

Project Name : **2610 NORBRIDGE AVE**

Project Number : **SBC/3034**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	45947-12	12	40.0	40.0	49.0	47.3	ug/L	EPA 8260B	9/19/05	93.2	88.8	4.78	70-130	25
Toluene	45947-12	<0.50	40.0	40.0	36.3	34.8	ug/L	EPA 8260B	9/19/05	90.7	87.0	4.13	70-130	25
Tert-Butanol	45947-12	<5.0	200	200	204	203	ug/L	EPA 8260B	9/19/05	102	102	0.291	70-130	25
Methyl-t-Butyl Ether	45947-12	<0.50	40.0	40.0	38.1	38.1	ug/L	EPA 8260B	9/19/05	95.2	95.3	0.142	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 45916

QC Report : Laboratory Control Sample (LCS)

Date : 9/20/2005

Project Name : **2610 NORBRIDGE AVE**

Project Number : **SBC/3034**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	9/19/05	92.0	70-130
Toluene	40.0	ug/L	EPA 8260B	9/19/05	90.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/19/05	95.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/19/05	93.4	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

CHAIN-OF-CUSTODY RECORD FORM

hydrologue Inc.
Consulting Engineers & Geologists

45916.1

PAGE 1 OF 1

SAMPLING INFORMATION	PROJECT INFORMATION
SIGNATURE: Shaofu Chen	PROJECT NO: 3034 NAME: SBC CTVYCA60 (P5200)
PRINTED NAME: Shaofu Chen	ADDRESS: 2610 NORBRIDGE AVE, CASTRO VALLEY, CA 94546
COMPANY: hydrologue Inc.	PROJECT MANAGER: CHRIS D'SA
SAMPLE INFORMATION	**SHIPPING INFORMATION**
CONDITION/TEMP°C	SHIPPING METHOD
TURNAROUND TIME: **REGULAR**	AIRBILL NO.

SAMPLE ID	DATE	TIME	DESCRIPTION	TPH DIESEL 8015M W/SG	TPH GASOLINE 8015	TPH DIESEL RANGE 8015 (m)	MTBE/BTEX 8021B	TRPH 418.1	TPH GASOLINE/MTBE/BTEX/ FUEL OXY + 1,2DCA+ EDB EPA 8260B	VOCs 624	VOCs 8260B	PCBs 8080	CAM METALS	ORGANIC LEAD DOHS METHOD	SAMPLE MATRIX (S- SOIL W- WATER A- AIR B- BULK)	CONTAINER TYPE (G-GLASS P-PLASTIC SB-BRASS SM- SUMMA TD-TEDLAR EN- ENCORE VOA-VIALS)	NO. OF CONTAINERS	SPECIAL HANDLING	
MW-1	9/13/05	14:45	WATER SAMPLE						/						W	G	4	4 VOA VIALS WITH ACID	01
OW-1		14:50							/									EMAIL RESULTS TO chris@hydrologue.com	02
MW-2		~~15:00~~							/									REPORT ALL RESULTS IN PPB	03
MW-3		~~14:55~~							/										04
QCEB		15:05							/								4		05

Sample Receipt
Temp °C 10 Therm. ID# 184
Initial NBC Date 091305
Time 1830 Coolant present: Y / N

RELINQUISHED BY	DATE	RELINQUISHED BY	DATE	RELINQUISHED BY	DATE	REMARKS
SIGNATURE: Shaofu Chen		SIGNATURE		SIGNATURE		
PRINTED NAME: Shaofu Chen	TIME	PRINTED NAME	TIME	PRINTED NAME	TIME	
COMPANY: hydrologue Inc.		COMPANY		COMPANY		
RECEIVED BY	**DATE**	**RECEIVED BY**	**DATE**	**RECEIVED BY (LAB)**	**DATE**	
SIGNATURE		SIGNATURE		SIGNATURE Natasha Cronin	09/13/2005	
PRINTED NAME	TIME	PRINTED NAME	TIME	PRINTED NAME Natasha Cronin	TIME	
COMPANY		COMPANY		COMPANY Kiff Analytical 530-297-4800	1610	

2793 E. FOOTHILL BOULEVARD, PASADENA, CA 91107 TEL: (626) 585-9696 chris@hydrologue.com

KIFF Analytical LLC

Report Number : 44882
Date : 7/26/2005

Chris d'Sa
Hydrologue Inc.
2793 E. Foothill Boulevard
Pasadena, CA 91107

Subject : 2 Water Samples
Project Name : 2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546
Project Number : 3034

Dear Mr. d'Sa,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 44882
Date : 7/26/2005

Project Name : **2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546**
Project Number : **3034**

Sample : **MW1** Matrix : Water Lab Number : 44882-01
Sample Date :7/19/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Methyl-t-butyl ether (MTBE)	**0.84**	0.50	ug/L	EPA 8260B	7/22/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/22/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	7/22/2005
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Toluene - d8 (Surr)	96.8		% Recovery	EPA 8260B	7/22/2005
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	7/22/2005
Dibromofluoromethane (Surr)	118		% Recovery	EPA 8260B	7/22/2005
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	7/22/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 44882
Date : 7/26/2005

Project Name : **2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546**
Project Number : **3034**

Sample : **OW1** Matrix : Water Lab Number : 44882-02
Sample Date :7/19/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Methyl-t-butyl ether (MTBE)	**0.67**	0.50	ug/L	EPA 8260B	7/22/2005
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	7/22/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	7/22/2005
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	7/22/2005
Toluene - d8 (Surr)	96.2		% Recovery	EPA 8260B	7/22/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	7/22/2005
Dibromofluoromethane (Surr)	118		% Recovery	EPA 8260B	7/22/2005
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	7/22/2005

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 44882

QC Report : Method Blank Data

Date : 7/26/2005

Project Name : **2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546**

Project Number : **3034**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/22/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/22/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	7/22/2005
Toluene - d8 (Surr)	96.8		%	EPA 8260B	7/22/2005
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	7/22/2005
Dibromofluoromethane (Surr)	113		%	EPA 8260B	7/22/2005
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	7/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 44882

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 7/26/2005

Project Name : **2610 NORBRIDGE AVE**

Project Number : **3034**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	44920-02	<0.50	40.0	40.0	40.5	39.4	ug/L	EPA 8260B	7/22/05	101	98.6	2.61	70-130	25
Toluene	44920-02	<0.50	40.0	40.0	38.4	37.4	ug/L	EPA 8260B	7/22/05	95.9	93.6	2.43	70-130	25
Tert-Butanol	44920-02	<5.0	200	200	201	198	ug/L	EPA 8260B	7/22/05	100	98.8	1.72	70-130	25
Methyl-t-Butyl Ether	44920-02	<0.50	40.0	40.0	40.2	40.1	ug/L	EPA 8260B	7/22/05	101	100	0.400	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 44882

QC Report : Laboratory Control Sample (LCS)

Date : 7/26/2005

Project Name : **2610 NORBRIDGE AVE**

Project Number : **3034**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/22/05	92.0	70-130
Toluene	40.0	ug/L	EPA 8260B	7/22/05	91.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/22/05	93.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/22/05	90.5	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

44882

CHAIN-OF-CUSTODY RECORD FORM

hydrologue Inc.
Consulting Engineers & Geologists

PAGE 1 OF 1

SAMPLING INFORMATION		PROJECT INFORMATION	
SIGNATURE	[signature]	PROJECT NO / NAME	3034 SBC CTVYCA60 (P5200)
PRINTED NAME	Shaofu Chen	ADDRESS	2610 NORBRIDGE AVE CASTRO VALLEY, CA 94546
COMPANY	hydrologue Inc.	PROJECT MANAGER	CHRIS D'SA
SAMPLE INFORMATION		**SHIPPING INFORMATION**	
CONDITION/TEMP°C		SHIPPING METHOD	
TURNAROUND TIME	REGULAR	AIRBILL NO.	

METHODS: TPH DIESEL 8015M W/SG; TPH GASOLINE 8015; TPH DIESEL RANGE 8015 (m); MTBE/BTEX 8021B; TRPH 418.1; TPH GASOLINE/MTBE/BTEX/ FUEL OXY + 1,2DCA + EDB EPA 8260B; VOCs 624; VOCs 8260B; PCBs 8080; CAM METALS; ORGANIC LEAD DOHS METHOD

SAMPLE MATRIX: S- SOIL W- WATER A- AIR B- BULK
CONTAINER TYPE: SS/B-BRASS G-GLASS SM- SUMMA TD-TEDLAR EN- ENCORE VOA-VIALS

SAMPLE ID	DATE	TIME	DESCRIPTION	TPH GASOLINE/MTBE/BTEX/FUEL OXY + 1,2DCA + EDB EPA 8260B	SAMPLE MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	SPECIAL HANDLING	
MW1A	7/19/05	15:20	WATER SAMPLE	/	W	G	4	4 VOA VIALS WITH ACID	01
MW-1B	↓	15:25		/	↓	↓	3	EMAIL RESULTS TO chris@hydrologue.com	02
				/				REPORT ALL RESULTS IN PPB	02 min

Sample Receipt
Temp °C [illegible] Therm. ID# IR-3
Initial MW Date 071905
Time 1908 Coolant present: (Y) / N

RELINQUISHED BY		DATE / TIME	RELINQUISHED BY		DATE / TIME	RELINQUISHED BY		DATE / TIME	REMARKS
SIGNATURE	[signature]	7/19	SIGNATURE			SIGNATURE			
PRINTED NAME	Shaofu Chen	17200	PRINTED NAME			PRINTED NAME			
COMPANY	hydrologue Inc.		COMPANY			COMPANY			

RECEIVED BY		DATE / TIME	RECEIVED BY		DATE / TIME	RECEIVED BY (LAB)		DATE / TIME
SIGNATURE			SIGNATURE			SIGNATURE	[signature]	071905
PRINTED NAME			PRINTED NAME			PRINTED NAME	Mesfin Wyohans	
COMPANY			COMPANY			COMPANY	Kiff Analytical 530-297-4800	1705

APPENDIX F

Field Forms

APPENDIX "C"
GROUNDWATER GAUGING FORM

2610 Norbridge Ave
Castro Valley, CA 94546

Job Number: 3034-00
Date: 9/13/05
Name: Sharon Chen

Well ID	TD Feet	DIA "	DTW Feet	WC Feet	DO Mg/L	K x1000	Temp °C	Comments	Prev Qtr Gals
MW-1	20	4	6.59	13.41	0.0		23.5		
OW-1	8	4	7.79	0.21	0.0		23.8		
MW-2	15	2	7.69	7.31	0.0		>3.8		
MW-3	20	2	7.21	12.79	0.0		23.9		

Hydrocarbon Odor was present in the following wells: None

Sheen was present in the following wells: None.

Number of FULL Drums from this event Left on Site: 1

Total Number of FULL Drums Left on Site: 10

Number of EMPTY Drums on Site: 4

Location of Drums Left on Site: see map

TD- Total Depth, DIA- Diameter, DTW- Depth to Water, WC-Water Column, DO- Dissolved Oxygen, T –Temperature, K – Conductivity mmhos/cm
Elev: 200 feet MSL

Well Info **MW-1**	Time	pH	Temp °C	Conduc-tivity µS/cm	Turbidity NTU	Gallons	Comments
Dia =4"		7.23	23.1	2.86 ms/cm		5	
Initial DTW 13.41'		7.24	24.3	2.40 ms/cm		10	
Total Depth 20		7.22	24.3	2.39 ms/cm		15	
Well Vol. x.66= 8.85		7.25	24.4	2.34 ms/cm		20	
Purge Vol. 25		7.23	24.4	2.35 ms/cm		25	

GROUNDWATER PURGING FORM

2610 Norbridge Ave
Castro Valley, CA 94546

Job Number: 3034
Date: 9/13/05 Name: _____

Well Info **MW-2**	Time	pH	Temp °C	Conductivity µS/cm	Turbidity NTU	Gallons	Comments
Dia =2"		7.32	24.1	1423		~~5~~ 3	
Initial DTW 7.69'		7.29	24.0	1331		~~10~~ 6	
Total Depth 15		7.21	23.1	1631		~~15~~ 9	
Well Vol. X.17=1.24							
Purge Vol. 9							

Well Info **MW-3**	Time	pH	Temp °C	Conductivity µS/cm	Turbidity NTU	Gallons	Comments
Dia =2"		7.63	22.2	2.87 ms/cm		~~5~~ 3	
Initial DTW 7.21'		7.58	23.6	1950		~~10~~ 6	
Total Depth 20		7.56	21.7	3.16 ms/cm		~~15~~ 9	
Well Vol. X.17=2.2							
Purge Vol. 9							

DW-1 / 4" / 7.18 25.0 1475 3 Gallons — dry.

Total Depth 8
Initial DTW 7.79
Well Vol/ft = 0.14
Purge Vol. 3.

APPENDIX "C"
GROUNDWATER GAUGING FORM

2610 Norbridge Ave
Castro Valley, CA 94546

Job Number: 3034-00
Date: 7/19/05
Name: Shaofu Chen

Well ID	TD Feet	DIA "	DTW Feet	WC Feet	DO Mg/L	K x1000	Temp °C	Comments	Prev Qtr Gals
MW-1A	[redacted]	[redacted]	6.0	14.0					
MW-1B	8.6	4	7.21	1.39					
MW-2	16	2							
MW-3	16	2							
MW-4	16	2							

Hydrocarbon Odor was present in the following wells: None

Sheen was present in the following wells: None

Number of FULL Drums from this event Left on Site: 1/2

Total Number of FULL Drums Left on Site: 1

Number of EMPTY Drums on Site: 0

Location of Drums Left on Site: See map

TD- Total Depth, DIA- Diameter, DTW- Depth to Water, WC-Water Column, DO- Dissolved Oxygen, T –Temperature, K – Conductivity mmhos/cm
Elev: 200 feet MSL

Well Info **MW-1** A	Time	pH	Temp °C	Conduc-tivity µS/cm	Turbidity NTU	Gallons	Comments
Dia =4"		6.37	22.0	2.82 mS/cm		5	
Initial DTW 6 '		6.38	22.3	2.67		10	
Total Depth 20		6.39	22.8	2.43		15	
Well Vol. x.66= 9.24						20	
Purge Vol. 15						25	

GROUNDWATER PURGING FORM

2610 Norbridge Ave
Castro Valley, CA 94546

Job Number: 3034
Date: 7/19/05 Name: Shad

Well Info ~~MW-1~~ ~~MW-2~~ DW1	Time	pH	Temp °C	Conduc-tivity µS/cm	Turbidity NTU	Gallons	Comments
Dia = ~~4~~ 2"		6.35	24.2	1207		3 ~~5~~	
Initial DTW 7.21'		6.36	24.1	1265		6 ~~10~~	
Total Depth ~~16~~ 8.6		6.36	23.8	1287		9 ~~15~~	
Well Vol. X.~~68~~ = 0.92							
Purge Vol. 9							

Well Info **MW-3**	Time	pH	Temp °C	Conduc-tivity µS/cm	Turbidity NTU	Gallons	Comments
Dia = 2"						5	
Initial DTW ____'						10	
Total Depth 16						15	
Well Vol. X.17=							
Purge Vol.							

Well Info **MW-4**	Time	pH	Temp °C	Conduc-tivity µS/cm	Turbidity NTU	Gallons	Comments
Dia =2"						5	
Initial DTW ____'						10	
Total Depth 20						15	
Well Vol. X.17=							
Purge Vol.							

APPENDIX G

Agency Correspondence

hydrologue, Inc.

Consulting Engineers & Geologists *http://www.hydrologue.com*

Remediation Engineering *Hazardous Substances* *Geology and Hydrogeology* *Geotechnical Engineering*

VIA FACSIMILE 510-337-9335 AND U.S. MAIL

July 29, 2005 Project No. 3034-00

MR. AMIR GHOLAMI
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway Ste 250
Alameda, CA 94502

SUBJECT: AMENDMENT TO WORKPLAN
SBC CTVYCA60 (P5200) Facility
2610 Norbridge Ave, Castro Valley, CA 94546
SITE NO. RO0002610

Dear Mr. Gholami:

Hydrologue Inc. (HI) and SBC have reviewed your letter dated July 19, 2005 for the above Site. We understand that the Alameda County Environmental Health Local Oversight Program (LOP) has approved the HI workplan dated March 23, 2005 with some modifications.

The LOP letter directs SBC to determine the underlying bedrock is not fractured, to extend the well below groundwater and up to couple of feet into the bedrock, and to collected continuous soil and groundwater samples.

The LOP letter referenced previous borings SB-1 and MW-1. However, these borings were installed as part of the 1993 gasoline underground storage tank (UST) site investigation. Subsequent to the UST removal and excavation and disposal of soil containing hydrocarbons, four soil borings were installed in 1994. Soil borings SB-1 through SB-3, drilled outside the former UST excavation, did not encounter groundwater and were terminated at depths of 30 feet, 16 feet and 17 feet, respectively, due to refusal at the bedrock. TPH-g and BTEX were not detected in the soil samples analyzed from these borings. One groundwater monitoring well (MW-1) was installed within the former UST excavation and no soil samples were collected since it was installed in the new backfill. TPH-g and BTEX were not detected in the groundwater sample collected in February 1994. This Site was granted closure by the County in a letter dated May 29, 1996.

Based on the data collected and observed during the previous investigations, a tan, highly sheared, claystone bedrock material underlies the surface of the site from approximately 15 to 30 feet bgs. The bedrock unit was observed to be very hard and dry. The upper surface of this unit is

irregular and is overlain by a less dense fine-grained sedimentary cover of silt and clay which varies in thickness.

The currently proposed workplan is associated with another UST which was removed by SBC in December 2003. During this UST removal, both soil and groundwater samples were collected. No TPH-g, BTEX, fuel oxygenates or lead scavengers were detected in the collected soil samples. Very low levels of hydrocarbons were detected in a water sample collected from the tank pit area. MTBE and TBA were detected in the tank pit water sample at 24 ppb and 16 ppb, respectively. Benzene, toluene, and xylenes concentrations were below 1 ppb. TPH-g, ethylbenzene, remaining fuel oxygenates, lead scavengers, and organic lead were not detected.

On July 19, 2005 well MW-1 and observation well OW-1 were sampled by HI and analyzed for TPH-g, BTEX, MTBE and fuel oxygenates. OW-1 is an observation well apparently installed within the 2003 UST removal backfill to a depth of 8 feet. Only low concentrations of MTBE were detected in both MW-1 and OW-1 at 0.84 and 0.67 ppb, respectively.

SBC and HI believe that the extension of monitor wells into the fractured bedrock zone will result in excessive costs and provide little useful data due to the following site conditions:

1. The presence of very stiff clay above the claystone bedrock in all of the previous borings (SB1-SB3) which would generally trap any contaminants and prevent further vertical migration. Based on the lithology of previous boring SB-1 which was drilled to 30 feet bgs, there is no evidence that the underlying bedrock is saturated and/or water bearing. Review of several adjacent LOP sites indicate that these adjacent sites only have shallow groundwater monitoring wells which do not exceed 20 feet bgs.
2. Soil sample results from the 2003 UST removal did not exhibit petroleum hydrocarbons or fuel oxygenates.
3. Recent groundwater sample analytical results collected on July 19, 2005 from MW-1 and OW-1 indicate that except for low concentrations of MTBE **below 1.0 ppb**, no BTEX, TPH-g, or fuel oxygenates were detected at the site. Hence the groundwater within the former UST backfill does not appear to be a likely threat to human health or the environment. Additional borings/wells within the pea gravel backfill are not necessary and would likely not provide accurate local shallow groundwater gradient information.
4. The physical difficulty associated with advancing augers through and collecting samples of claystone bedrock. Given the dense subsurface material encountered during the 1994 investigation, it is reasonable to assume that SPT or Cal-modified split barrel sampling will not be a feasible method of collecting soil samples for laboratory analysis or assessing potential fractures in the claystone.
5. If there were any residual shallow contamination, penetration of the claystone bedrock could promote cross-contamination of constituents from shallow material into the bedrock.

In order to resolve LOP concerns; HI proposes the following amendment to its workplan:

- HI will utilize a California Professional Geologist for the drilling activities.
- Drill one boring (SB-4) within the former UST excavation using a CME-type continuous sampler, assuming the feasibility of drilling. The boring would be drilled to a depth of 30

feet, or auger refusal, and soil samples would be retained from natural soil below the backfill at 5-foot intervals for laboratory analysis. If the deepest soil sample is not found to contain detectable concentrations of constituents of concern, the results would demonstrate that constituents have not migrated downward from the tank pit to the underlying bedrock.

- If saturated conditions or indications of water-bearing fractures are encountered in the natural soil/formation beneath the former UST, a well will be constructed with screened interval intercepting the water bearing zone. Otherwise, upon completion, boring SB-4 will be backfilled with a cement-bentonite grout.
- HI will drill two wells **outside** the former UST backfill (MW-2 and MW-3) to a total depth of 20 feet bgs or auger refusal. In the event that refusal is encountered, HI will terminate any well at that depth. Soil samples will be collected every five feet in each of the two borings for laboratory analysis.

HI will initiate drilling activities at the Site on or about August 22, 2005 at 9:00 AM. Well permits have been received from Alameda County Public Works Agency.

Finally the only open GEO ID for this Site is T0600101657 in the State Geotracker database. However said GEO ID is for the case which was closed. Please inform us if SBC can upload the electronic data to this closed site or if you will request a new GEO ID.

Very truly yours,
HYDROLOGUE, INC.

Christopher P. d'Sa, M.S.
Senior Project Manager

Robert C. Owoc, PG 7690
Senior Project Manager

Attachments: July 19, 2005 Analytical Data
Revised Site Plan

cc: DURHAM, MONIQUE L (SBCSI)

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

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

August 11, 2005

Ms. Cheryl Allen
SBC Communications Inc.
308 S Akard St Three SBC Plaza
Environmental Management Room No: 900
Dallas, TX 75202-5399

Subject: Fuel Leak Case No. RO0002610, SBC, 2610 Norridge Ave., Castro Valley, CA 94546

Dear Ms. Allen:

Alameda County Environmental Health (ACEH) staff has recently reviewed the Workplan and the Amendment to workplan" report, dated July 29, 2005, prepared by Hydrologue, Inc. We request that you address the following technical comments, perform the proposed work, and send us the technical reports requested below.

TECHNICAL COMMENTS
As you are aware, the above work plan and its amendment was prepared in order to further define the horizontal and vertical extent of soil/groundwater contamination. Based on my discussion with Mr. Christopher P. d'Sa of Hydrologue, Inc. This office concurs with the submitted workplan and its amendment dated July 29, 2005. Please ensure the following items are addressed as specified below:

1- Site Conceptual Model (SCM) along with geological cross sections and other components of a SCM must be prepared as discussed.

2- **Geotracker EDF Submittals** - A review of the case file and the State Water Resources Control Board's (SWRCB) Geotracker website indicate that electronic copies of analytical data have not been submitted for your site. Pursuant to CCR Sections 2729 and 2729.1, beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the LUFT program, must be transmitted electronically to the SWRCB Geotracker website via the internet. Additionally, beginning January 1, 2002, all permanent monitoring points utilized to collected groundwater samples (i.e. monitoring wells) and submitted in a report to a regulatory agency, must be surveyed (top of casing) to mean sea level and latitude and longitude accurate to within 1-meter accuracy, using NAD 83, and transmitted electronically to the SWRCB Geotracker website. Beginning July 1, 2005, electronic submittal of a complete copy of all reports is required in Geotracker (in PDF format).

3- In order to remain in regulatory compliance, please upload all analytical data (collected on or after September 1, 2001), to the SWRCB's Geotracker database

website in accordance with the above-cited regulation. Please perform the electronic submittals for applic[redacted]e data and submit verification to th[redacted]gency by **10/11/05.**

TECHNICAL REPORT REQUEST

Please submit the following technical reports to Alameda County Department of Environmental Health (Attention: Amir K. Gholami):

October 11, 2005 Result of the Work Plan

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

If you have any questions, please call me at (510) 567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

cc: Mr. Christopher P. d'Sa, Hydrologue, Inc. 2793 East Foothill Blvd., Pasadena, CA 91107
A.gholami, D.Drogos

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

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

Certified Mail # 7002 2030 0006 9574 0641
August 18, 2004

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

Notice of Responsibility

Record ID: R00002610
SBC (P5200) CTVYCA60
2610 Norbridge Avenue
Castro Valley, CA 94546

SITE

Date First Reported: 2/25/04
Substance: Gasoline
Funding (Federal or State): F
Multiple RPs?: N

James Stehr
SBC
2600 Camino Ramon, Room 3E000P
San Ramon, CA 94583

Responsible Party (RP)
Property Owner

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified SBC as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5700.

Pursuant to section 25299.37(c) (7) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact Amir Gholami, Hazardous Materials Specialist, at this office at (510) 567-6876 for further information about the site designation process.

Date: 8/24/04

Ariu Levi, Chief
Contract Project Director

Please Circle One (Add) Delete Change
Reason: NEW CASE

c: Jenniffer Jordan, SWRCB
Amir Gholami, Hazardous Materials Specialist

Alameda County CUPA Program

Contaminated Site Case Transfer Form

Referral To:

Date	January 15, 2004
Agency	Alameda County Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502
Attention	Donna L. Drogos, LOP/SLIC Program Manager

Site Information: RECEIVED Closure Report 2/25/04

Site Responsible Party(s)	**SBC**
Site Name	**SBC (P5200) CTVYCA60**
Site Address	**2610 Norbridge Avenue, Castro Valley**
Site Phone	**NA**
Site Contractor/Consultant (if available)	**Shaw Environmental Inc.**
Site DBA	

Site Conditions:

UST				
USTs removed? # removed: ____1_____ Date removed: __12-11-03_____	Yes	☒	No	☐
Contents (circle): gasoline diesel waste oil heating oil solvents kerosene stoddard solvent other (specify) _____	Yes	☒	No	☐
Observations of system (holes, leaks)?	Yes	☒	No	☐
Observed contamination (free product, smell, soil/water discoloration)?	Yes	☒	No	☐
Detectable concentrations of soil and/or groundwater contamination? o Highest Concentration Detected in Soil Contaminant (specify) _____ Concentration _____ ppm o Highest Concentration Detected in Water Contaminant (specify) ____MTBE_____ Concentration _24 _____ ppb	Yes	☐	No	☐
Unauthorized Release Form filed?	Yes	☐	No	☒
Future intended use if known? Specify BACKFILL + PAVE	Yes	☐	No	☐
NON-UST				
Former industrial use?	Yes	☐	No	☐
Detectable concentrations of soil and/or groundwater contamination? o Highest Concentration Detected in Soil Contaminant (specify) _____ Concentration _____ ppm o Highest Concentration Detected in Water Contaminant (specify) _____ Concentration _____ ppb	Yes	☐	No	☐
Future intended use if known? Specify _____	Yes	☐	No	☐
If available, attach pertinent reports				

Transferred as: LOP ☒ SLIC ☐

Level of Update requested: ☐ distribution list ☐ all meetings ☐ all site visits ☐ closure sign off ☐ all the above

Transfer requested by Inspector: _____ Date: 3-3-04

Transfer accepted by (ACEH): _____ Date: 3/15/04

Alameda County CUPA Program

Contaminated Site Case Transfer Form

Referral To:

Date	January 15, 2004
Agency	Alameda County Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502
Attention	Donna L. Drogos, LOP/SLIC Program Manager

Site Information:

Site Responsible Party(s)	**SBC**
Site Name	**SBC (P5200) CTVYCA60**
Site Address	**2610 Norbridge Avenue, Castro Valley**
Site Phone	**NA**
Site Contractor/Consultant (if available)	**Shaw Environmental Inc.**
Site DBA	

Site Conditions:

UST				
USTs removed? # removed: ____1_____ Date removed: __12-11-03_____	Yes	☒	No	☐
Contents (circle): (gasoline) diesel waste oil heating oil solvents kerosene stoddard solvent other (specify) _____	Yes	☒	No	☐
Observations of system (holes, leaks)?	Yes	☒	No	☐
Observed contamination (free product, smell, soil/water discoloration)? SHEEN	Yes	☒	No	☐
Detectable concentrations of soil and/or groundwater contamination? o Highest Concentration Detected in Soil Contaminant (specify) _____ Concentration _____ ppm o Highest Concentration Detected in Water Contaminant (specify) ____MTBE_____ Concentration _24 _____ ppb	Yes	☒	No	☐
Unauthorized Release Form filed?	Yes	☐	No	☒
Future intended use if known? Specify NO CHANGE IN USE	Yes	☐	No	☐
NON-UST				
Former industrial use?	Yes	☐	No	☐
Detectable concentrations of soil and/or groundwater contamination? o Highest Concentration Detected in Soil Contaminant (specify) _____ Concentration _____ ppm o Highest Concentration Detected in Water Contaminant (specify) _____ Concentration _____ ppb	Yes	☐	No	☐
Future intended use if known? Specify _____	Yes	☐	No	☐
If available, attach pertinent reports				

Transferred as: LOP ☒ SLIC ☐

Level of Update requested: ☐ distribution list ☐ all meetings ☐ all site visits ☐ closure sign off ☐ all the above

Transfer requested by Inspector: Robert Weston Date: 1-15-04

Transfer accepted by (ACEH): _____ Date: _____

UNDERGROUND STORAGE TANK CLOSURE/REMOVAL
FIELD INSPECTION REPORT

SP0005261

Facility Name: SBC		STID:	Date: 12-11-03
Facility Address: 2610 NORRIDGE AVE, CASTRO VALLEY	Contact on site: DAVE COLLINS		
Inspector: ROBERT WESTON	Contractor/Consultant: SHAW ENV INC.		

General Requirements	Yes	No	N/A
Approved closure plan on site.	✓		
Changes to approved plan noted.			✓
Residuals properly stored/transported.	✓		
Receipt for adequate dry ice noted.			✓

General Requirements	Yes	No	N/A
Site Safety Plan properly signed.	✓		
40B:C fire extinguisher on site.	✓		
"No Smoking" signs posted.	✓		
Gas detector challenged by inspector.			✓

Tank Observations	T-1	T-2	T-3	T-4
Tank Capacity (gallons)	10K			
Material last stored	[redacted] GASOLINE			
Dry ice used (pounds)	500			
Combustible gas concentration as %LEL. *(Note time & sampling point)*				
(1) 12:34 PM	2			
(2)				
(3)				
Oxygen concentration as % volume. *(Note time &sampling point.)*				
(1) 12:35 PM	.3			
(2)				
(3)				
Tank Material	FRP COATED STEEL			
Wrapping/Coating, if any				
Obvious holes?	NO			

Tank Observations	T-1	T-2	T-3	T-4
Obvious corrosion?	NO			
Obvious odors from tank?				
Seams intact?	YES			
Tank bed backfill material	GRAVEL			
Obvious discoloration?	NO			
Obvious odors ex tank bed?	NO			
Water in excavation?	YES			
Sheen/product on water?	YES			
Tank tagged by transporter?	✓			
Tank wrapped for transport?	NO			
Tank plugged w/ vent cap?	✓			
Date/time tank hauled off?	12-11-03			
No. of soil samples taken?	2			
Depth of soil samples (ft. bgs)	8'10"	9'2"		

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?	✓		
Obvious holes on pipes?			✓
Obvious odors from pipes?			✓
Obvious soil discoloration in piping trench?			✓
Obvious odors from piping trench?			✓
Water in piping trench?			✓
Number & depth of soil samples from piping trench?		NONE	
Number & depth of water samples from piping trench?		NONE	

Other Observations	Yes	No	N/A
Leak from any tank suspected?		✓	
"Leak Report" form given to the operator?		✓	
Obviously contaminated soil excavated?			✓
Soil stockpile sampled?	✓		
Stockpile lined AND covered?	✓		
Water in excavation sampled?	✓		
Number/depth of water samples taken?	1 SAMPLE	9'6"	
All samples properly preserved for transport?			

Additional Observations	Yes	No	N/A
Soil/water sampling protocols acceptable?	✓		
Sampling "chain of custody" noted?	✓		
Tank pit filled in or covered?		✓	
Tank pit fenced or barricaded?	✓		
Transporter a registered HW hauler?	✓		
Uniform HW Manifest completed?	✓		
Contractor/Consultant reminded of complete UST Removal Report due within 30 days?	✓		
Date/Time removal/closure operations completed?			
OT hours or additional charges due from contractor?			

SITE SAMPLING DIAGRAM

DAVID R. COLLINS
Engineer

Shaw Shaw Environmental, Inc.

4005 Port Chicago Highway
Concord, CA 94520-1120
925.288.2384
925.288.0888 fax
925.766.6345 cell
david.collins@shawgrp.com

Notes/Comments: SHEEN OBSERVED ON WATER IN PIT PRIOR TO REMOVAL. [redacted] MAY HAVE DRIPPED FROM STINGER AS TANK WAS PUMPED OUT AFTER RINSING. SLIGHT ODOR NO STAINING OR DISCOLORATION NOTED.

hydrologue, Inc.

Consulting Engineers & Geologists *http://www.hydrologue.com*

Remediation Engineering *Hazardous Substances* *Geology and Hydrogeology* *Geotechnical Engineering*

VIA FACSIMILE 510-337-9335 AND U.S. MAIL

August 31, 2005 Project No. 3034-00

MR. AMIR GHOLAMI
Donna Drogos, P.E., Supervisor
Alameda County Environmental Health
1131 Harbor Bay Parkway Ste 250
Alameda, CA 94502

SUBJECT: SBC CTVYCA60 (P5200) Facility
2610 Norbridge Ave, Castro Valley, CA 94546
SITE NO. RO0002610

Dear Sir or Madam:

As per our workplan dated March 23, 2005, its amendment dated July 29, 2005 and the County of Alameda approval letter dated August 11, 2005, the field work was recently implemented at the Site by SBC.

Hydrologue Inc. now wishes to submit to the State Water Resources Control Board Geotracker database over the internet, laboratory data containing soil and water analyses generated for reports required under the UST program.

However the only Geotracker ID that is available on the Geotracker database is **T0600101657** which is for a **closed** Site. Request is hereby made for the County of Alameda to generate a new Geotracker ID so that the responsible party can electronically submit the required information into Geotracker.

Very truly yours,
HYDROLOGUE, INC.

Christopher P. d'Sa, M.S.
Senior Project Manager

cc: DURHAM, MONIQUE L (SBCSI)

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HP LaserJet 3200se

HYDROLOGUE, INC.
6265850046
SEP-1-2005 10:26AM

Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
376	9/ 1/2005	10:26:05AM	Send	15103379335	0:48	1	OK

hydrologue, Inc.

Consulting Engineers & Geologists *http://www.hydrologue.com*

Remediation Engineering Hazardous Substances Geology and Hydrogeology Geotechnical Engineering

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HYDROLOGUE, INC.

Christopher P. d'Sa, M.S.
Senior Project Manager

cc: DURHAM, MONIQUE L (SBCSI)

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2793 East Foothill Boulevard • Pasadena, CA 91107 • Tel. (626) 585-9696 • Fax (626) 585-0046

APPENDIX H

Previous County Closure

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

sent 6/24 w/ Tyler Stock

Alameda County CC4580
Environmental Health Services
1131 Harbor Bay Pkwy., #250
Alameda CA 94502-6577
(510)567-6700 FAX(510)337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

rec'd 6/18/96

May 29, 1996

misdirected

Pacific Bell
2600 Camino Ramon
Castro Valley, CA 94546
ATTN: Irene Soto

UNDERGROUND STORAGE TANK (UST) CASE
Re:Pacific Bell Facility, 2610 Norbridge Ave., Castro Valley, CA 94546
Site No. 4092

Dear Ms. Soto,

This letter confirms the completion of site investigation and remedial action for the one 10,000-gallon unleaded gasoline underground storage tank formerly located at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Please telephone Juliet Shin at (510) 567-6700 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

c: Acting Chief, Hazardous Materials Division - files
Juliet Shin, ACDEH
Kevin Graves, RWQCB
Lori Casias, SWRCB

LOP\Completion

01-1789

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 2/15/96

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy.
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Juliet Shin Title: Senior HMS

II. CASE INFORMATION

Site facility name: Pacific Bell Facility
Site facility address: 2610 Norbridge Ave., Castro Valley, CA 94546
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4092
URF filing date: 5/26/93 SWEEPS No: N/A

Responsible Parties:	Addresses:	Phone Numbers:
Pacific Bell Contact: Irene Soto	2600 Camino Ramon Castro Valley, CA 94546	(510) 867-5125

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	10,000	unleaded gasoline	removed	5/4/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown. No holes were observed in tank.

Site characterization complete? YES

Date approved by oversight agency: 2/15/96

Monitoring Wells installed? Yes Number: One

Proper screened interval? Yes

Highest GW depth below ground surface: 4 feet Lowest depth: 5.12 feet

Flow direction: Unknown

Most sensitive current use: Unknown

Are drinking water wells affected? NO Aquifer name: Unknown

Is surface water affected? NO Nearest affected SW name: None

Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County
1131 Harbor Bay Pkwy.
Alameda, CA 94502

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	10,000-gallon	Erickson Inc. 255 Parr Blvd. Richmond, CA	5/4/93
Soil#	~250 cubic yards	BFI Sanitary Landfill 4001 N. Vasco Rd. Livermore, CA	7/14/93
Rinsate	150-gallons	Petroleum Recycling Corp 13331 North Hwy 33 Patterson, CA 95363	5/3/93
Groundwater*	2,300-gallons	Petroleum Recycling Corp 13331 North Hwy 33 Patterson, CA 95363	5/5/93

*-groundwater was pumped from the tank pit bottom
#-excavated soil from tank pit

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)
Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before	Soil (ppm) After	Water (ppb) Before[5]	Water (ppb) After[6]
TPH (Gas)	430[1]	8[1]	7,900	64
TPH (Diesel)	NA	NA	NA	
Benzene	0.022[2]	0.022	ND	ND
Toluene	0.036[3]	0.036	ND	ND
Xylene	4[1]	0.26[4]	110	ND
Ethylbenzene	8[1]	0.35[4]	110	ND

[1]-Results from overexcavation soil sample Soil-4
[2]-Results from overexcavation soil sample Soil-6
[3]-Results from overexcavation soil sample Soil-9
[4]-Results from overexcavation soil sample Soil-8
[5]-Results from tank pit "grab" groundwater sample
[6]-Results of last quarterly sampling event for Well MW-1

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES

Site management requirements: NA

Should corrective action be reviewed if land use changes? NO

Monitoring wells Decommisioned: NO Will be decommisioned upon receipt of case closure.

Number Decommisioned: Number Retained:

List enforcement actions taken: None

List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Juliet Shin Title: Senior HMS
Signature: Juliet Shin Date: 5/3/96

Reviewed by
Name: Eva Chu Title: Hazardous Materials Specialist
Signature: Eva Chu Date: 5/2/96

Name: Dale Klettke Title: Hazardous Materials Specialist
Signature: Dale Klettke Date: 5/2/96

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response: Approved
RWQCB Staff Name: Kevin Graves Title: San. Engineering Asso. Date: 5/23/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is a Pacific Bell equipment storage and maintenance yard. One 10,000-gallon fiberglass unleaded gasoline underground storage tank (UST) was removed from the site on May 4, 1993, and replaced with a 10,000-gallon double-walled, steel UST. It appears that this UST was used

primarily for fueling Pacific Bell vehicles (refer to Attachment 1 for Regional Map).

IT Corporation (IT) collected three soil samples (Soil-1 through Soil-3) from the the north, northeast, and southern tank pit sidewalls. These samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX). No contaminants were identified from the north and northeast walls. However, 12 parts per million (ppm) TPHg was identified from the southern wall (Soil-3)(please refer to Attachments 2 and 3 for sample locations, depths, and results). Therefore, this end of the tank pit was overexcavated approximately 10 feet laterally in the southern direction. Three additional soil samples were collected from this overexcavation (Soil-4 through Soil-6). In response to the 430ppm TPHg identified in Soil-4, an exploratory trench was excavated another 12 feet southwest of the Soil-4 sample location, to define the extent of TPHg contamination. Confirmatory soil sample, Soil-7, was collected from 6.5-feet bgs. Analysis of this sample did not identify any contaminants.

A second round of overexcavation was initiated to remove the bulk of soil contamination at the southwest end of the former tank. Three additional confirmatory soil samples, Soil-8 through Soil-10, were collected. Low levels of up to 31ppm TPHg and 0.35ppm benzene were identified in these soil samples.

On February 2, 1994, four borings were drilled at the site (SB-1 through SB-3, and MW-1). Monitoring wells were to be constructed in all four borings, however, three borings encountered bedrock material and drill rig refusal prior to encountering groundwater. Therefore, only one monitoring well, MW-1, was installed. This well was installed in the former tank pit excavation through 16 feet of pea gravel (refer to Attachment 4). Borings SB-3 and SB-2 were drilled down to approximately 15-feet bgs before encountering auger refusal in the bedrock. Boring SB-1 was drilled down to approximately 30-feet bgs where it hit refusal in bedrock. No groundwater was observed in soil borings SB-1 through SB-3. Groundwater, however, was identified in MW-1 at approximately 6.5-feet bgs. Well MW-1 is screened from 6 to 16-feet bgs (refer to borings logs-Attachment 5 through 8). No hydrocarbon odor was noted in any of the borings, and no detectable concentrations registered on the Organic Vapor Meter.

Soil samples were collected from borings SB-1 through SB-3 from approximately 7.5-feet bgs. Analysis of these samples for TPHg and BTEX did not identify any contaminants above detection limits (refer to Attachment 9).

Groundwater samples were collected from Well MW-1 for four quarters. Analysis of these samples for TPHg and BTEX only identified up to 74 parts per billion (ppb) TPHg and no BTEX to date (refer to Attachment 10).

Based on the above information, it appears that the site is ready for closure. The low levels of TPHg and BTEX remaining in the soil and groundwater do not appear to pose a human health threat, based on American Society for Testing and Materials' Risk-Based Corrective Action (ASTM RBCA) guidelines. The groundwater samples never identified BTEX, which are the most threatening components of TPHg, and the levels of TPHg identified do not exceed the Central Valley Regional Water Quality Control Board's secondary drinking water standard of 100ppb. Lastly, it appears that the groundwater from MW-1 is limited perched water, due to the observed bedrock beneath the site and the fact that no water was encountered in the borings SB-1 through SB-3.

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

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

STID 4092

September 27, 1993

Duane Wallace
Pacific Bell
Realestate Division
2600 Camino Ramon, 3E400
San Ramon, CA 94583

RE: PACIFIC BELL MAINTENANCE FACILITY, 2610 NORBRIDGE AVENUE, CASTRO VALLEY - SOIL AND WATER INVESTIGATION

Dear Mr. Wallace:

This office has completed review of the leaking underground storage tank (UST) case history for the subject site. This task included our review of the July 16, 1993 IT Corporation UST closure report documenting activities associated with the May 4, 1993 closure of one (1) 10,000 gallon fuel UST at the referenced site. Noteworthy environmental impact was observed during UST closure, as described below.

A water sample collected from shallow ground water present in the UST pit during closure revealed up to 7,900 parts per billion (ppb) of total petroleum hydrocarbons characterized as gasoline, and 220 ppb of total ethylbenzene and xylene isomers. The results of a subsequent limited soil investigation and overexcavation indicate soil contaminants appear to be largely isolated to the capillary fringe just above ground water. Ground water flow (advection) and/or molecular dispersion through the water column may be the mechanism(s) responsible for the dispersion of fuel compounds through the soil.

The San Francisco Bay Regional Water Quality Control Board (RWQCB) requires additional investigations to be performed where a confirmed release from an UST has been identified. Such investigations are in the form of a **Preliminary Site Assessment**, or PSA. The information gathered by the PSA is used to determine the extent of any environmental impact resulting from the release, and an appropriate course of action to remediate the site, if required. A PSA is conducted in accordance with the State Water Resources Control Board (SWRCB) Leaking Underground Fuel Tank (LUFT) Field Manual, San Francisco Bay RWQCB Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks, and Article 11 of Title 23, California Code of Regulations (CCR).

A PSA must be performed at this site. In order to proceed with a PSA, please contract with a qualified environmental consultant. Your responsibility is to have the consultant submit the PSA workplan for review which outlines planned activities pertinent to meeting the criteria described in the referenced guidance documents. These criteria are broadly outlined in the attached **Appendix A** from the RWQCB.

The Department, through an agreement with the RWQCB, will oversee the assessment and remediation of your site as the lead agency. Our oversight will include the review of and comment on work proposals and technical guidance on appropriate investigative approaches and monitoring schedules. The issuance of well drilling permits, however, will be through the Alameda County Flood Control and Water Conservation District, Zone 7, in Pleasanton. The RWQCB may choose to take over as lead agency if it is determined following the completion of the initial assessment that there has been a substantial impact to ground water.

The PSA work plan is due within 45 days of the date of this letter, or by November 12, 1993. Work should commence no later than 30 days following work plan approval.

A report must be submitted within 45 days of the completion of field activities associated with this phase of work at the site. Subsequent reports are to be submitted quarterly until this site qualifies for final RWQCB "sign off."

The referenced initial and quarterly reports must describe the status of the investigation and include, among other elements, the following:

- Details and results of <u>all</u> work performed during the designated reporting period: records of field observations and data, boring and well construction logs, water level data, chain-of-custody forms, laboratory results for all samples collected and analyzed (including QA/QC data), tabulations of free product thicknesses and dissolved fractions, etc.
- Status of ground water contamination and characterization
- Interpretation of results: water level contour maps showing gradients, free and dissolved product plume definition maps for each target compound, geologic cross sections, etc.
- Recommendations for additional work

All reports and proposals must be submitted under seal of a California-registered geologist or civil engineer with the appropriate environmental background. Please include a statement of qualifications for each lead professional involved with this project.

Please be advised that this is a formal request for technical reports pursuant to California Water Code Section 13267(b). Failure to respond may result in the referral of this case to the RWQCB for enforcement action.

Please feel free to call me at 510/271-4530 should you have any questions.

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

attachments

cc: Rafat A. Shahid, Assistant Agency Director, Env. Health
Gil Jensen, Alameda County District Attorney's Office
Jim Ferdinand, Alameda County Fire Department
Michael Miller, IT Corporation

Appendix A

Workplan for Initial Subsurface Investigation

In recent years, the number of initial site investigations related to unauthorized releases of fuel products has increased dramatically. To assure that the workplans associated with these investigations can be reviewed and approved in a timely manner, it is essential that these documents have uniform organization and content.

The purpose of this appendix is to present an outline to be followed by professional engineering or geologic consultants in preparing workplans to be submitted for review and approval by Local Implementing Agencies and the Regional Board.

A statement of qualifications and the registration number of the California registered engineer and/or California registered geologist responsible for the project must be included with the submitted workplan and subsequent reports.

This appendix should be used in conjunction with the " Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", August 1990.

PROPOSAL AND REPORT FORMAT

I. Introduction

A. Statement of Scope of Work

B. Site location

C. Background

D. Site History

1. Brief description of the type of business and associated activities that take place at the site, including the number and capacity of operating tanks.

2. Description of previous businesses at the site.

3. Complete description of tank activities, tank contents, and tank removal.

a. number of underground tanks, uses, etc...

3. Describe soil types and soil strata encountered in excavation(s).

4. Provide in tabular form the analytic results of all previous soil and water sampling. The location of these samples should be included on the site map. The date sampled, the identity of the sampler, and signed laboratory data sheets need to be included. The laboratory data sheets must include the laboratory's assessment of the condition of samples upon receipt, including: a) temperature, b) container type, c) air bubbles present/absent in VOA bottles, d) proper preservation, and e) any other relevant information which might affect the analytic results of the sample(s).

5. Identify underground utilities.

6. Describe any unusual problems encountered during excavation or tank removal.

7. Describe in detail the methods used for storing, characterizing, and disposing of all contaminated soil and groundwater.

8. Reference all required permits, including those issued by the Air Quality Management District and local underground tank permitting agency and public encroachment permits when drilling offsite..

III. Plan for determining the extent of soil contamination on site.

A. Describe the method/technique(s) proposed for determining the extent of contamination within the excavation.

B. Describe sampling methods and procedures to be used.

1. If soil gas survey is planned, then:

a. Identify number of boreholes, location (on site map), sampling depth, etc...

b. Identify subcontractors, if any

c. Identify methods or techniques used for analysis

d. Provide quality assurance plan for field testing

Please note that soil gas surveys are not considered to

B. Drilling method for construction of monitoring wells, including decontamination procedures.

1. Expected depth and diameter of monitoring wells

2. Expected drilling date

3. Sampling method and sampling interval (split spoon, every 5', at changes of lithology, at the soil/water interface, etc...)

4. Well design and construction specifications, including casing type, diameter, screen length and interval, and filter pack and screen slot specifications including rational for their selection (sieve analysis, etc..).

5. Depth interval and type of seal

6. Construction diagram for wells

7. Well development method and criteria used for assessing adequacy of development (the time period between construction, development, and sampling should be noted)

8. Plans for characterizing and disposing of cutting spoils and development water (contact your Regional Board or Local Implementing Agency for guidance if on-site disposal is proposed)

9. Surveying plan for wells (requirements include surveying to established benchmark to 0.01 foot).

C. groundwater sampling plans (this should include plans for sampling of on-site domestic wells).

1. Water level measurement method

2. Method(s) for measuring free-product, observation of sheen and odor (must be done prior to well purging; the use of an interface probe when checking for the presence of free-product is highly recommended)

3. Well purging procedures

4. Well purge water characterization and disposal plans

5. Water sample collection protocol (include the pH, conductivity, and temperature of groundwater prior to sampling)

APPENDIX I

Excerpts from Historical Site Investigations

PRELIMINARY SITE INVESTIGATION
PACIFIC BELL FACILITY
2610 NORBRIDGE AVENUE
CASTRO VALLEY, CALIFORNIA

PREPARED FOR:

PACIFIC BELL
2600 CAMINO RAMON
ROOM - 3E400Q
SAN RAMON, CALIFORNIA

PREPARED BY:

IT CORPORATION
2055 JUNCTION AVENUE
SAN JOSE, CALIFORNIA 95131

IT PROJECT NO. 151933

MARCH 1994

Michael D. Miller
Senior Project Geologist

Matthew A. Hopwood
California Registered Geologist No. 5881

INTERNATIONAL TECHNOLOGY CORPORATION

PRELIMINARY SITE INVESTIGATION
PACIFIC BELL FACILITY
2610 NORBRIDGE AVENUE
CASTRO VALLEY, CALIFORNIA

1.0 INTRODUCTION

This report presents the results of the installation of one groundwater monitoring well and the completion of three soil borings, performed by IT Corporation (IT) at the 2610 Norbridge Avenue site in Castro Valley, California (Figure 1). This report addresses the issues presented in the letter dated September 27, 1993, from the Alameda County Environmental Health Department, regarding a preliminary site assessment. Field work was performed during February, 1994 in response to the request and authorization of Ms. Rose Cassens of Pacific Bell. This work has been performed as a follow-up to previous work conducted by IT regarding underground storage tank (UST) replacement at the site.

1.1 Background

The site is a Pacific Bell equipment storage and maintenance yard (Figure 2). One 10,000 gallon fiberglass unleaded gasoline UST was used at the site primarily to supply fuel for Pacific Bell vehicles. This fiberglass UST was replaced with a 10,000 gallon double-wall glasteel tank manufactured by Modern Welding (Fresno, California).

On May 4, 1993, Balch Petroleum, a Pacific Bell contractor, removed the UST. The removal was observed by Pacific Bell, IT, the Eden Consolidated Fire Protection District (ECFPD, Inspector Tony Rocha), and the Alameda County Department of Environmental Health (ACDEH, Mr. Amir Gholami).

IT collected and analyzed three soil samples (SOIL-1, SOIL-2, and SOIL-3) from the original excavation sidewalls, approximately 6 feet below ground surface (BGS). Total petroleum hydrocarbons as gasoline (TPH-G) and benzene, toluene, ethyl benzene, and xylenes (BTEX) were not detected within the northern (SOIL-1) and northeastern (SOIL-2) excavation corners. The southern sidewall sample (SOIL-3) contained 12 parts per million (ppm) TPH-G (Figure 2).

A second round of over-excavation was initiated to remove hydrocarbon impacted soil adjacent to the southwest corner of the excavation. This over-excavated area is shown in the attached Figure 2. Three verification samples (SOIL-8, SOIL-9, and SOIL-10) were collected from this over-excavated area. Detectable TPH-G or BTEX were not found in soil sample SOIL-10. Soil sample SOIL-8 collected just above the groundwater interface (7.5 feet BGS) contained 31 ppm TPH-G. BTEX concentrations up to 0.35 ppm ethyl benzene (SOIL-8) were found in soil samples SOIL-8 and SOIL-9 (IT Corporation, 1993). This data is shown on Figure 2.

Regional Office
2055 Junction Avenue • San Jose, California 95131-2105 • 408-894-1200 • FAX: 408-894-0701

A groundwater grab sample GRABWATER-1 was collected from standing water within the excavation following the tank removal. This sample contained 7,900 parts per billion (ppb) TPH-G and BTEX concentrations up to 110 ppb ethyl benzene and total xylenes. Approximately 2,300-gallons of standing water within the excavation was pumped out and disposed of at the PRC recycling facility in Patterson, California (IT Corporation, 1993).

2.0 OBJECTIVE AND SCOPE OF WORK

The objective of work presented in this report was to assess the presence and distribution of petroleum hydrocarbons in soil and shallow groundwater beneath the site.

The scope of work developed to meet the objective included the following:

- Workplan preparation;
- Field investigation;
  - Three shallow soil borings and one monitoring well,
  - Soil sample collection from all borings,
  - Groundwater sample collection from the monitoring well,
- Laboratory analysis of soil and groundwater samples; and
- Report preparation.

3.0 FIELD INVESTIGATION

The field investigation was conducted in general accordance with the workplan dated January 3, 1994 (IT Corporation, 1994). The permit to install the borings and monitoring well was obtained from the Zone 7 Water Agency. The workplan to conduct well installation at the site was prepared by IT Corporation (IT Corporation, 1994) on behalf of Pacific Bell and was approved by Mr. Scott Seery of the Alameda County Division of Environmental Health, Division of Hazardous Materials (ACDEH) prior to the issuance of the permit. A copy of the soil boring and well permit is presented in Appendix A.

The field investigation was conducted between February 2 and 15, 1994, and involved the drilling and sampling of four borings with subsequent construction of a monitoring well within one of the borings. Monitoring wells were to be constructed in all borings but three encountered bedrock material and drill rig refusal prior to encountering groundwater. Therefore, one groundwater monitoring well was installed (MW-1). A groundwater sample was collected from the completed well approximately six days after well development. Permits for the project are presented in Appendix A. A description of the procedures used during field work are presented in Appendix B.

3.1 Summary of Soil Borings and Monitoring Well Installation

Four soil borings (SB-1, SB-2, SB-3, and MW-1) were drilled on February 2, 1994, at the locations shown in Figure 2, using a truck-mounted drill rig equipped with ten-inch hollow-stem

augers. The locations of SB-1, SB-2, and SB-3 were selected to obtain soil and groundwater data from the upgradient and downgradient groundwater direction. The fourth boring/well was drilled in the overexcavated area immediately downgradient of the tank pit for monitoring and extraction if necessary. The boring converted to a monitoring well was drilled to a depth of approximately 16 feet below ground surface (BGS). Pea gravel backfill material was encountered to the bottom of the boring and no soil samples were collected. Boring SB-1 was advanced to approximately 30 feet BGS, and soil was sampled at 2.5-foot intervals. The other soil borings (SB-2 and SB-3) were advanced to approximately 16 and 17 feet BGS respectively, and soil samples were collected at five-foot intervals beginning at five feet BGS. Soil samples were collected using a California modified split-barrel sampler for observation of soil lithology, field measurement of organic vapors, and laboratory analyses. Soil samples were retained on ice in an insulated chest for delivery to the laboratory.

The monitoring well was constructed using four-inch inner diameter, schedule 40 polyvinyl chloride (PVC) well casing with 0.020-inch width machine-slotted screen; a slot size judged appropriate for the material encountered. The monitoring well was screened between 6.0 and 16.0 feet BGS. The monitoring well was completed with blank casing to within 0.5 foot of the ground surface. The annular space around the screened interval in the well was backfilled with No. 3 Lonestar sand filter pack and capped with an approximate six-inch thick zone of hydrated granular bentonite. Neat portland cement grout was placed in the annulus above the bentonite zone, with a well housing and locking device set at ground surface. The monitoring well was developed by pumping and bailing to remove the fine-grained materials from the wells and to increase the hydraulic communication between the formation and the filter pack.

Drilling services were provided by Kvilhaug Well Drilling of Concord, California. During the drilling operations, a summary of the subsurface conditions encountered was recorded on a boring log. General procedures used to drill and log the borings, collect soil samples, and install/develop/sample the well are summarized in Appendix B.1. Boring logs and well construction diagrams are presented in Appendix B.2. The monitoring well construction data is presented on Table 1. The well development log is presented in Appendix B.3.

3.2 Subsurface Conditions

3.2.1 Stratigraphy

Based on the data collected from the soil borings, an assessment of the shallow stratigraphy of the site was performed. A tan, highly sheared, claystone bedrock material underlies the surface of the site from approximately 15 to 30 feet BGS. The bedrock unit was observed to be very hard and dry. The upper surface of this unit is irregular and is overlain by a thin veneer of fine-grained sedimentary cover of silt and clay which varies in thickness.

No hydrocarbon odors were noted in any of the borings. Volatile organic compounds (VOCs) were not detected by the organic vapor meter while drilling. No stained soil cuttings or samples were observed during drilling.

4.2.2 Groundwater Sample

A groundwater sample was collected and retained for laboratory analysis on February 15, 1994 from the newly installed monitoring well (MW-1). Laboratory analysis did not detect TPH-G or BTEX in the groundwater sample. These data are presented in Figure 4 and Table 4. Laboratory reports are presented in Appendix D.2.

5.0 SOIL DISPOSAL

Approximately 10 yards of soil cuttings and drilling material was temporarily stored onsite in a 20-yard^3 roll-off bin. After profiling, the material transported by Erickson, Inc. to the Browning Ferris Industries (BFI) disposal facility in Livermore, California as a non-hazardous RCRA waste. The soil disposal receipts are provided in Appendix C.

6.0 DISCUSSION

Based on field and laboratory data, there is a high likelihood that soil containing petroleum hydrocarbons within the unsaturated zone has been removed. Remaining hydrocarbons are located below 7 feet within the capillary fringe. Within the excavation area, soil was removed below the water table. In our opinion, impacted soil removal action (source material) was effectively completed during overexcavation.

There were no petroleum hydrocarbon odors or stained soil noted while drilling of SB-1, SB-2, SB-3, and MW-1 during the preliminary site investigation. Petroleum hydrocarbon sheen was not observed during groundwater monitoring well development and purging. In addition, petroleum hydrocarbons were not detected in soil or groundwater samples.

7.0 CONCLUSIONS

Based on the information presented in this report, current regulatory guidelines, and the professional judgment of IT Corporation, the following conclusions have been made:

- The water within the UST excavation may be a natural expression of the shallow aquifer or an artificial sump collecting surface runoff. Water within MW-1 is approximately 5.2 feet below the ground surface.

- Petroleum hydrocarbons were not detected in the soil and water samples analyzed during this investigation.

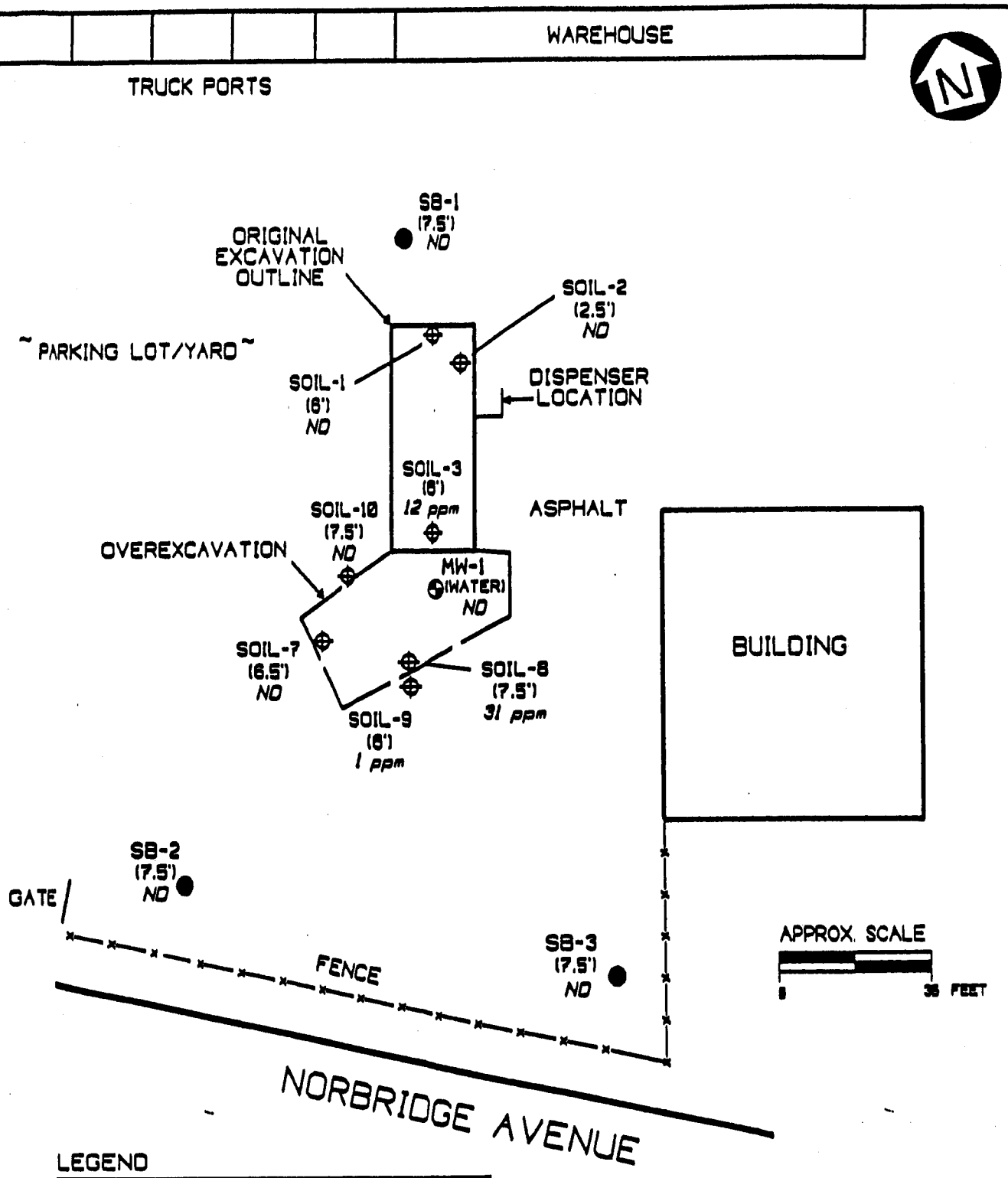
8.0 REFERENCES

IT Corporation, 1993, Report of UST Removal, Pacific Bell Facility 2610 Norbridge Avenue, Castro Valley, California; dated July 16, 1993, 5 p.

IT Corporation, 1994, Work Plan for Subsurface Characterization, Pacific Bell Facility 2610 Norbridge Avenue, Castro Valley, California; dated January 3, 1994, 5 p.

SWRCB (State Water Resources Control Board), 1989, Leaking Underground Fuel Tank (LUFT) Field Manual; dated October 1989, 121 p.

DRAWN BY	DATE	CHK'D BY	APPROVED BY	DRAWING NO.
JM	06-30-93	[illegible]	[illegible]	51933/GCD04



LEGEND

MW-1	MONITORING WELL
SB-3	SOIL BORING
SOIL-2	SIDEWALL SOIL SAMPLE
(7.5')	SAMPLE DEPTH
1 ppm	SAMPLE RESULTS
ND	NOT DETECTED AT/OR ABOVE LABORATORY DETECTION LIMITS

FIGURE 2

SITE PLAN

IT PROJECT NO. 151933

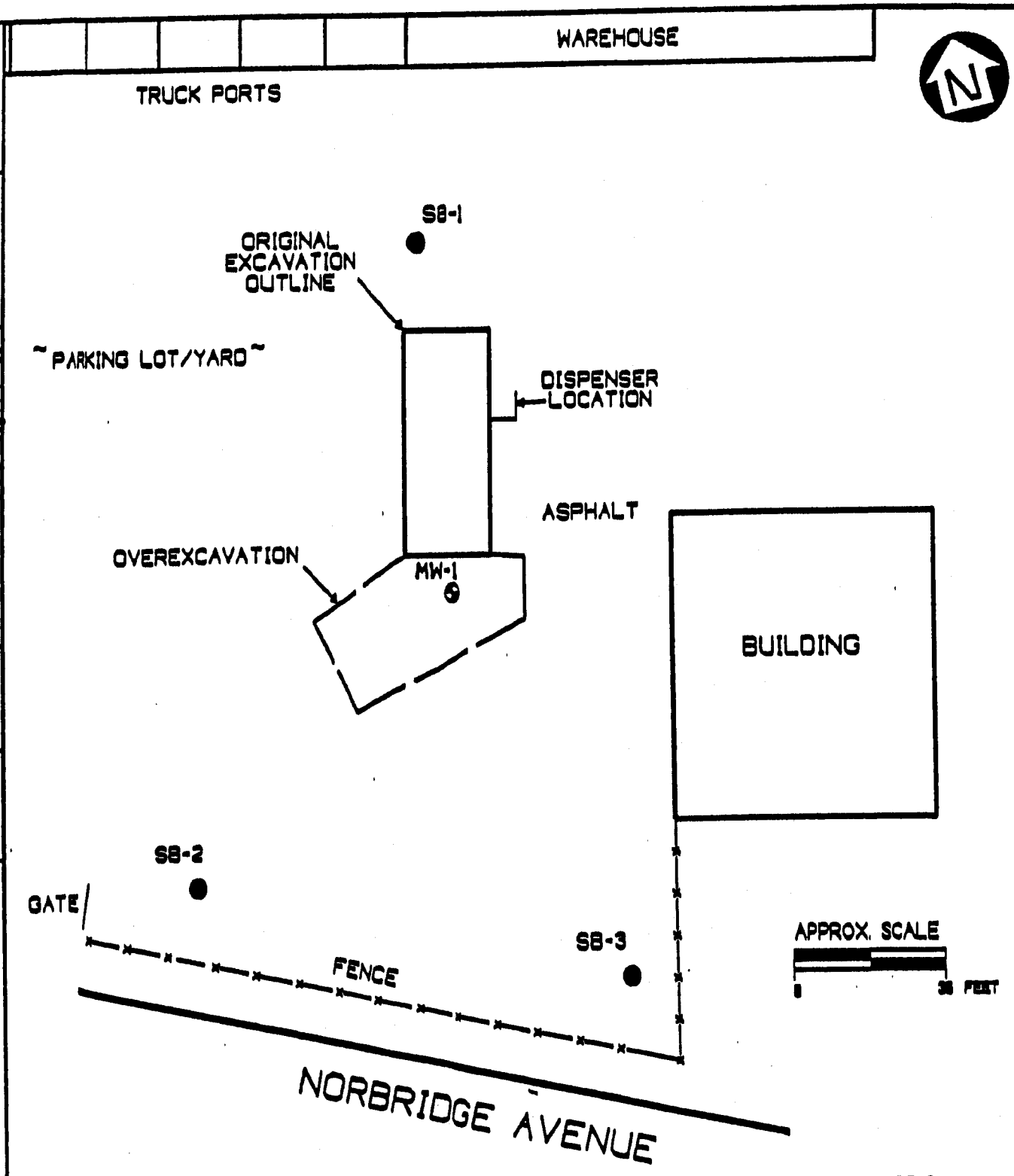
PACIFIC BELL FACILITY
2510 NORBRIDGE AVENUE
CASTRO VALLEY, CALIFORNIA

PREPARED FOR

PACIFIC BELL
SAN RAMON, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION

DRAWN BY	JM	CHKD BY	APPROVED BY	DRAWING NO.	
	06-30-83			FILE/DISK	151933/GCD04



LEGEND

- MONITORING WELL
- SOIL BORING

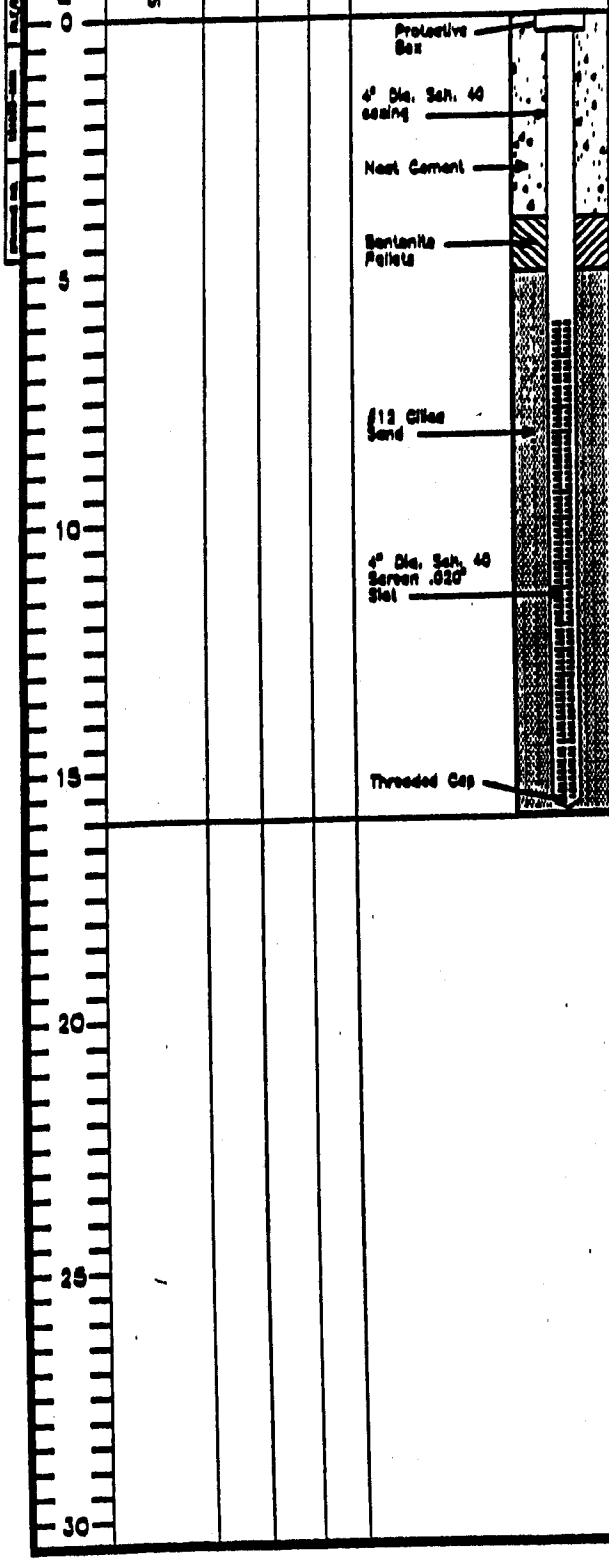
FIGURE 2
SITE PLAN
IT PROJECT NO. 151933
PACIFIC BELL FACILITY
2618 NORBRIDGE AVENUE
CASTRO VALLEY, CALIFORNIA
PREPARED FOR
PACIFIC BELL
SAN RAMON, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION

BORING NO. MW-1

FIELD GEOLOGIST: M. MILLER
CHECKED BY: M. MILLER
GROUND SURFACE EL.: N/A
TOP OF CASING EL.: N/A

DATE BEGAN: 02/02/94
DATE FINISHED: 02/02/94
TOTAL DEPTH: 16 FT.
DEPTH TO WATER: 9.2 FT.



Asphalt and concrete.

Pea gravel - tank fill.

Collecting first sample from first native material.

encountered water at 6.5 feet (BGS)

TOTAL DEPTH 16 FT.

COMMENTS:

Location is within excavated area of tankpit.
Lots of water and gravel inside auger.
No sample collected because native material was not encountered.

DRILLING CO.: Kvilhaug Drilling
DRILL METHOD: Hollow Stem Auger
SAMPLING METHOD: Modified California Split Spoon Sampler

PROJECT NO.: 151933
CLIENT: Pacific Bell
LOCATION: 2610 Norbridge Avenue, Castro Valley, California.

INTERNATIONAL TECHNOLOGY CORPORATION

BORING NO. SB-1

FIELD GEOLOGIST: M. MILLER
CHECKED BY: M. MILLER
GROUND SURFACE EL.: N/A
TOP OF CASING EL.: N/A
DATE BEGAN: 02/02/94
DATE FINISHED: 02/02/94
TOTAL DEPTH: 30 Feet
DEPTH TO WATER: NOT FOUND

DEPTH in FEET	SAMPLE NUMBER & INTERVAL	BLOW COUNT	RECOVERY (%)	P I D (ppb)	BORING SUMMARY	USCS	PROFILE	
0					Cement grout	FILL		2" Asphalt, 10" Roadbase fill.
						ML		Silt: moderate yellowish brown (10YR 5/4), dry.
5	SB-1-5'	27	85	0		CL		CLAY; olive gray (5Y 3/2), damp, very silty. becomes grayish olive (10YR 4/2) at 7.0 feet.
	SB-1-7.5'	65	90	0				
10	SB-1-10'	85		0				
	SB-1-12.5'	65		0		CL		CLAYSTONE; moderate yellowish brown (10YR 5/4), dry hard, highly sheared.
15	SB-1-15'	72		0				becoming bedrock, very hard drilling, very dry.
20								
25								COMMENTS: No water found. Boring terminated at 30 feet. Backfilled with grout. Hit bedrock- Refusal
30								TOTAL DEPTH 30 FEET

DRILLING CO.: Kvilhaug Drilling
DRILL METHOD: Hollow Stem Auger
SAMPLING METHOD: Modified California Split Spoon Sampler

PROJECT NO.: 151933
CLIENT: Pacific Bell
LOCATION: 2610 Norbridge Avenue, Castro Valley, California.

INTERNATIONAL TECHNOLOGY CORPORATION

BORING NO. SB-2

FIELD GEOLOGIST: M. MILLER
CHECKED BY: M. MILLER
GROUND SURFACE EL.: N/A
TOP OF CASING EL.: N/A
DATE BEGAN: 02/02/94
DATE FINISHED: 02/02/94
TOTAL DEPTH: 16 FT.
DEPTH TO WATER: NOT FOUND

DEPTH IN FEET	SAMPLE NUMBER & INTERVAL	BLOW COUNT	RECOVERY (%)	P I D (ppm)	BORING SUMMARY	USCS	PROFILE	
0					Cement grout	FILL		Gravelly base-rock fill.
						CL		CLAY; dark gray (N3), stiff.
						ML		SILT; moderate yellowish brown (10YR 5/4), damp.
5						CL		CLAY; olive gray (5Y 3/2), damp, stiff.
	SB-2-7.5'	70	80	0				
10								becomes moderate yellowish brown at 11.0 feet.
								becoming bedrock
15	SB-2-15'	85	50	0				hit claystone bedrock; drill rig refusal.
								TOTAL DEPTH 16 FEET
20								COMMENTS: No water found. Boring terminated at 16 feet. Backfilled with grout.
25								
30								

DRILLING CO.: Kvilhaug Drilling
DRILL METHOD: Hollow Stem Auger
SAMPLING METHOD: Modified California Split Spoon Sampler

PROJECT NO.: 151933
CLIENT: Pacific Bell
LOCATION: 2610 Norbridge Avenue, Castro Valley, California.

INTERNATIONAL TECHNOLOGY CORPORATION

BORING NO. SB-3

FIELD GEOLOGIST: M. MILLER
CHECKED BY: M. MILLER
GROUND SURFACE EL.: N/A
TOP OF CASING EL.: N/A
DATE BEGAN: 02/02/94
DATE FINISHED: 02/02/94
TOTAL DEPTH: 17 FT.
DEPTH TO WATER: NOT FOUND

DEPTH IN FEET	SAMPLE NUMBER & INTERVAL	BLOW COUNT	RECOVERY (%)	P I D (ppm)	BORING SUMMARY	USCS	PROFILE	
0					Cement grout	FILL		Asphalt and fill.
						CL		CLAY; dark gray (N3), damp, stiff.
5								
	SB-3-7.5'	71	80	0				CLAY; olive gray (5Y 3/2), damp, very stiff.
10								becomes moderate brown at 12 ft.
								hard drilling, becomes bedrock.
15	SB-3-15'	50	50	0				hit claystone bedrock; drill rig refusal.
								TOTAL DEPTH 17 FEET
20								COMMENTS: No water found. Boring terminated at 17 feet. Backfilled with grout.
25								
30								

DRILLING CO.: Kvilhaug Drilling
DRILL METHOD: Hollow Stem Auger
SAMPLING METHOD: Modified California Split Spoon Sampler

PROJECT NO.: 151933
CLIENT: Pacific Bell
LOCATION: 2610 Norbridge Avenue, Castro Valley, California.

INTERNATIONAL TECHNOLOGY CORPORATION

TABLE 1

MONITORING WELL CONSTRUCTION DATA

Well No.	Borehole Depth (1)	Casing Depth (2)	Screened Interval (3)	FilterPack Depth (4)	Inner Dia. (5)	Install Date (6)	Drilling Method (7)
MW-1	16.0	16.0	6.0-16.0	5.0-16.0	4	2-2-92	HSA

Notes:

1. Depth to bottom of borehole in feet below the ground surface.
2. Depth to bottom of casing in feet below the ground surface.
3. Depth to top and bottom of well screen in feet below ground surface.
4. Depth to top and bottom of sand filter pack in feet below ground surface.
5. Well casing inside diameter in inches.
6. Monitoring well installed on the date shown.
7. HSA = boring drilled by hollow-stem auger.

TABLE 2

GROUNDWATER GRADIENT DATA

Well No.	DTW (1)	SWE (2)	Hydrocarbon Thickness	Groundwater Elevation (3)
MW-1	5.20	NA	0	NA

Notes:

1. DTW = depth to water as measured from the top of the well casing with an electric water sensing probe.
2. SWE = surveyed wellhead elevation as measured at the top of the well casing in feet above mean sea level.
3. The groundwater elevation = SWE minus DTW.
4. Measurements were recorded prior to groundwater sample collection on 2-15-94.
5. NA = There was no need to survey the wellhead elevation.

TABLE 3

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES (1)

Sample No.	Depth (2)	Date	TPH gasoline	Benzene	Ethylbenzene	Toluene	Xylenes
			(ppm)	(ppb)	(ppb)	(ppb)	(ppb)
SB-1(7.5)	7.5	2-2-94	ND	ND	ND	ND	ND
SB-2(7.5)	7.5	2-2-94	ND	ND	ND	ND	ND
SB-3(7.5)	7.5	2-2-94	ND	ND	ND	ND	ND
SSC-1(2-94)	composite of drill cuttings	2-15-94	ND	ND	ND	ND	ND

Notes:

1. Soil samples analyzed for TPH (Total Petroleum Hydrocarbons) as gasoline by LUFT methods utilizing modified EPA Method No. 8015, for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method No. 8020.

2. Depth given in approximate feet below ground surface.

3. ND = Not Detected above reporting limit.

TABLE 4

RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER SAMPLE (1)

Sample No.	Date	TPH gasoline (ppm)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylenes (ppb)
MW-1(2-94)	2-15-94	ND	ND	ND	ND	ND

Notes:

1. Groundwater samples analyzed for TPH (Total Petroleum Hydrocarbons) as gasoline by LUFT methods utilizing modified EPA Method No. 8015, for benzene, toluene, ethylbenzene, and total xylenes by EPA Method No. 8020.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director

RAFAT A. SHAHIN, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

STID 4092

January 21, 1994

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 1

To Mike Miller	From Scott Seery
Co. IT Corp	Co. ACDEH
Dept.	Phone # 510/271-4530
Fax # 408/874-0701	Fax #

Mr. Duane Wallace
Pacific Bell
2600 Camino Ramon
San Ramon, CA 94583

RE: 2610 NORBRIDGE AVENUE, CASTRO VALLEY

Dear Mr. Wallace:

This office is in receipt and has completed review of the *Revised Subsurface Investigation Work Plan* submitted under IT Corporation cover dated January 3, 1994. This revised work plan has been accepted as submitted.

Please contact this office at 510/271-4530 when field work is slated to begin.

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director
Gil Jensen, Alameda County District Attorney's Office
Mike Miller, IT Corporation, 2055 Junction Avenue
San Jose, CA 95131

TOTAL P.01

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2610 NORBRIDGE AVE.
CASTRO VALLEY, CA

CLIENT
Name PACIFIC BELL
Address 2600 CAMINO RAMON, SE 400 Voice
City SAN RAMON, CA Zip 94583

APPLICANT
Name IT CORP. Frank HORVATH
Fax 408-894-0701
Address 2055 JUNCTION AVE Voice 408-232-9032
City SAN JOSE, CA Zip 95131

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	___	General	___
Water Supply	___	Contamination	✓
Monitoring	✓	Well Destruction	___

PROPOSED WATER SUPPLY WELL USE

Domestic	___	Industrial	___	Other	___
Municipal	___	Irrigation	___		

DRILLING METHOD:

Mud Rotary	___	Air Rotary	___	Auger	✓
Cable	___	Other	___		

DRILLER'S LICENSE NO. C57 Bayland Drilling

WELL PROJECTS

Drill Hole Diameter	8	in.	Maximum Depth	20	ft.
Casing Diameter	2	in.	Number	4	
Surface Seal Depth	4	ft.			

GEOTECHNICAL PROJECTS

Number of Borings	___		Maximum Depth	___	ft.
Hole Diameter	___	in.			

ESTIMATED STARTING DATE 8/31/93
ESTIMATED COMPLETION DATE 8/31/93

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

APPLICANT'S SIGNATURE Frank Horvath Date 8/11/93

FOR OFFICE USE

PERMIT NUMBER 93455
LOCATION NUMBER ___

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

(B.) WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

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

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

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 16 Aug 93
Wyman Hong

91992

INTERNATIONAL TECHNOLOGY CORPORATION

WELL DEVELOPING LOG

Project Name: PACIFIC BELL
Project No.: 151933
Request-for-Analysis Control No.:
Chain-of-Custody Control No.:
Sample No.: N/A

Sample Location or: MW-1
Well ID (attach map if necessary):
Date and Time 2-9-94

Checked by (Office)/Date:

EQUIPMENT

Purging Method/Equipment: ELECT. PUMP AND V.SP. TUBING

6" Diameter = 1.5 gal/ft 4" Diameter = 0.67 gal/ft 2" Diameter = 0.17 gal/ft

DEVELOPING INFORMATION

Casing ID (a) (in.) 4" Unit Casing Volume (b) .67 (.67)
Depth to Well Bottom (c) 15.45 (15 4/5) Depth to Water (d) 5.20 (5.2)
Length of Static Water Column in Casing (e) = (c) - (d) = 15.45 - 5.2 = 10.25 (10.25)
Casing Water Volume (f) = (b) x (e) = .67 x 10.25 = 6.86 (6.86)
Casing Volumes = 8 x (f) = 54.94 ( )

Volume Purged (GAL.)	Temp. (F.)	Conductance (X/000)	Time	Water Description (Color, Turbidity, Odor, Oil)	pH
.25	58.9	1.57	10:58	BROWN, SLTY, ODOR-ESS	8.13
10.0	59.8	1.23	11:05	NO SHEEN	8.48
20.0	62.1	1.84	11:09	TAN, " "	8.66
30.0	63.7	1.97	11:14	SLIGHTLY TAN, "	8.60
40.0	63.1	1.96	11:19	CLEAR, SLIGHTLY YELLOWISH	8.40
55.0	63.2	1.97	11:25	CLEAR, NO SHEEN NO ODOR-ESS	8.50

Total Volume Purged: 55.0 Time: 11:25 Purged Dry (Y/N): NO

NOTES:

APPENDIX J

Excerpts from Shaw UST Removal Report

UNDERGROUND STORAGE TANK REMOVAL REPORT SBC FACILITY 2610 NORBRIDGE AVENUE CASTRO VALLEY, CALIFORNIA

Prepared for:

SBC
P.O. Box 5095
2600 Camino Ramon, Room 3E400GG
San Ramon, California 94583

Prepared by:

Shaw Environmental, Inc.
4005 Port Chicago Highway
Concord, California 94520

Megan Curran
Project Scientist

Sydney Geels
Project Manager/Quality Assurance

Shaw Project No. 844915.30

February 2004

TABLE 1
Groundwater Sample Analytical Results
SBC Facility
2610 Norbridge Avenue
Castro Valley, California

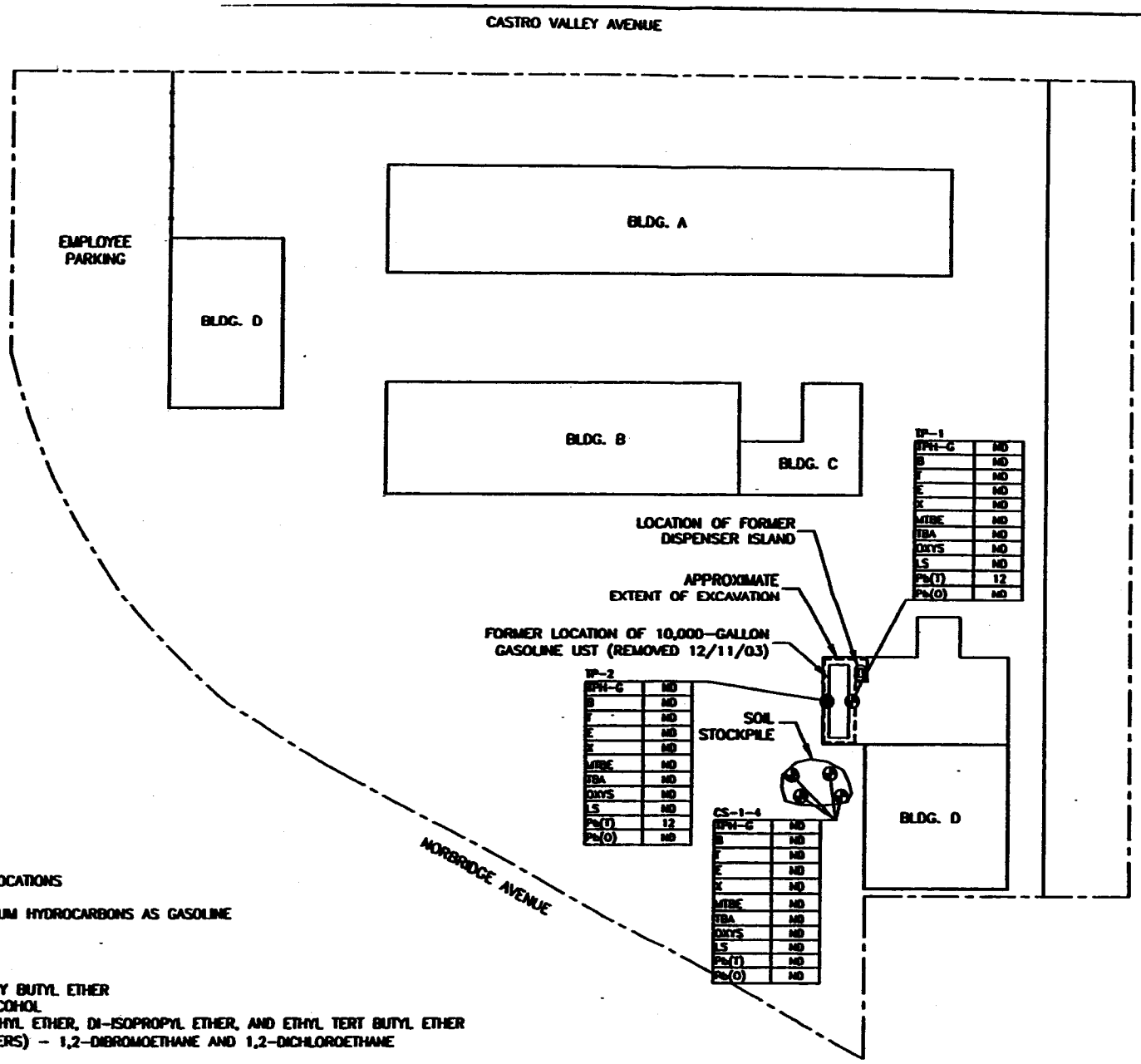
Sample I.D.	Sample Location	Sample Depth (bsg)	Date Collected	TPH-G	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	TBA	3 Fuel Oxygenates	Lead Scavengers	Total Lead	Organic Lead
				(all results reported in parts per billion)										
TPW-1	tank excavation	10 feet	12/11/03	ND_{50}	0.57	0.57	$ND_{0.5}$	1.0	24	16	$ND_{0.5}$	$ND_{0.5}$	6.6	$ND_{5.0}$

Notes:
bsg – below surface grade
TPH-G – total petroleum hydrocarbons as gasoline
MTBE – methyl tertiary butyl ether
TBA- tert-butyl alcohol
3 Fuel oxygenates- tert-amyl methyl ether, di-isopropyl ether, and ethyl tert butyl ether
Lead Scavengers- 1,2-Dibromoethane and 1,2-Dichloroethane
ND_x – not detected above "x" laboratory detection limits

TABLE 2
Soil Sample Analytical Results
SBC Facility
2610 Norbridge Avenue
Castro Valley, California

Sample I.D.	Sample Location	Sample Depth (bsg)	Date Collected	TPH-G	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	TBA	3 Fuel Oxygenates	Lead Scavengers	Total Lead	Organic Lead
				(all results reported in parts per million)										
TP-1	tank excavation	8.1 feet	12/11/03	$ND_{1.0}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.025}$	$ND_{0.005}$	$ND_{0.005}$	12	$ND_{0.5}$
TP-2	tank excavation	9.2 feet	12/11/03	$ND_{1.0}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.025}$	$ND_{0.005}$	$ND_{0.005}$	12	$ND_{0.5}$
CS-1-4	Excavation stockpile	—	12/11/03	$ND_{1.0}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{0.025}$	$ND_{0.005}$	$ND_{0.005}$	$ND_{5.0}$	$ND_{0.5}$

Notes:
bsg – below surface grade
TPH-G – total petroleum hydrocarbons as gasoline
MTBE – methyl tertiary butyl ether
TBA- tert-butyl alcohol
3 Fuel oxygenates- tert-amyl methyl ether, di-isopropyl ether, and ethyl tert butyl ether
Lead Scavengers- 1,2-Dibromoethane and 1,2-Dichloroethane
ND_x – not detected above "x" laboratory detection limits



LEGEND

SOIL SAMPLE LOCATIONS

H-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES
IE METHYL TERTIARY BUTYL ETHER
TERT BUTYL ALCOHOL
S TERT AMYL METHYL ETHER, DI-ISOPROPYL ETHER, AND ETHYL TERT BUTYL ETHER
(LEAD SCAVENGERS) - 1,2-DIBROMOETHANE AND 1,2-DICHLOROETHANE
T) TOTAL LEAD
O) ORGANIC LEAD
ND NOT DETECTED ABOVE METHOD LIMITS

ALL RESULTS REPORTED IN PARTS PER MILLION (ppm)

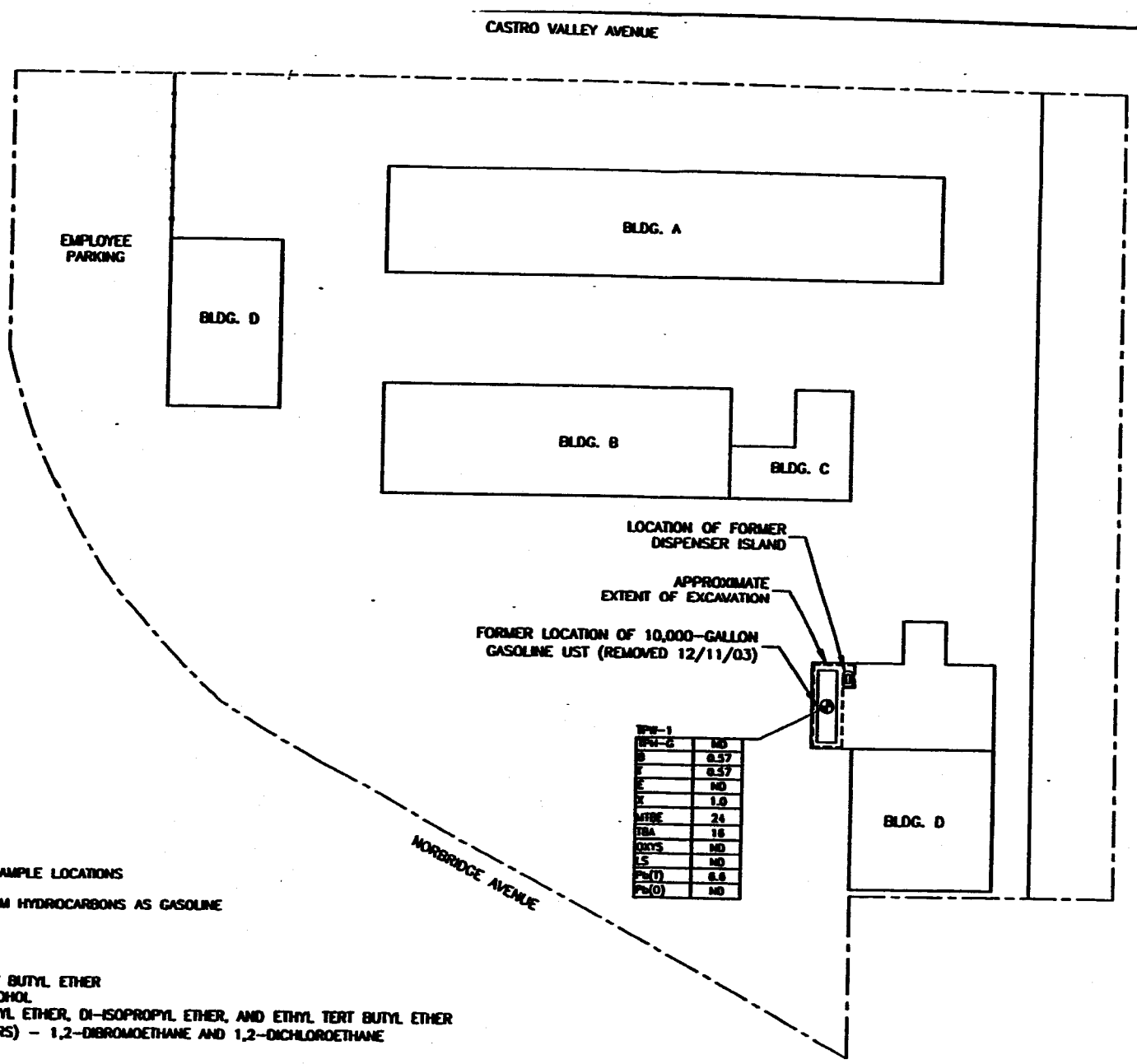
APPROXIMATE SCALE
0 40 80 FEET

Shaw™ Shaw Environmental, Inc.

SBC
SAN RAMON, CALIFORNIA

FIGURE 4

SITE PLAN WITH SOIL SAMPLE ANALYTICAL RESULTS (12/11/03)
SBC FACILITY
2610 NORBRIDGE AVENUE
CASTRO VALLEY, CALIFORNIA



LEGEND

GROUNDWATER SAMPLE LOCATIONS

TPH-G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
MTBE	METHYL TERTIARY BUTYL ETHER
TBA	TERT BUTYL ALCOHOL
OXYS	TERT AMYL METHYL ETHER, DI-ISOPROPYL ETHER, AND ETHYL TERT BUTYL ETHER
LS	(LEAD SCAVENGERS) – 1,2-DIBROMOETHANE AND 1,2-DICHLOROETHANE
Pb(T)	TOTAL LEAD
Pb(O)	ORGANIC LEAD
ND	NOT DETECTED ABOVE METHOD LIMITS

ALL RESULTS REPORTED IN PARTS PER BILLION (ppb)

APPROXIMATE SCALE

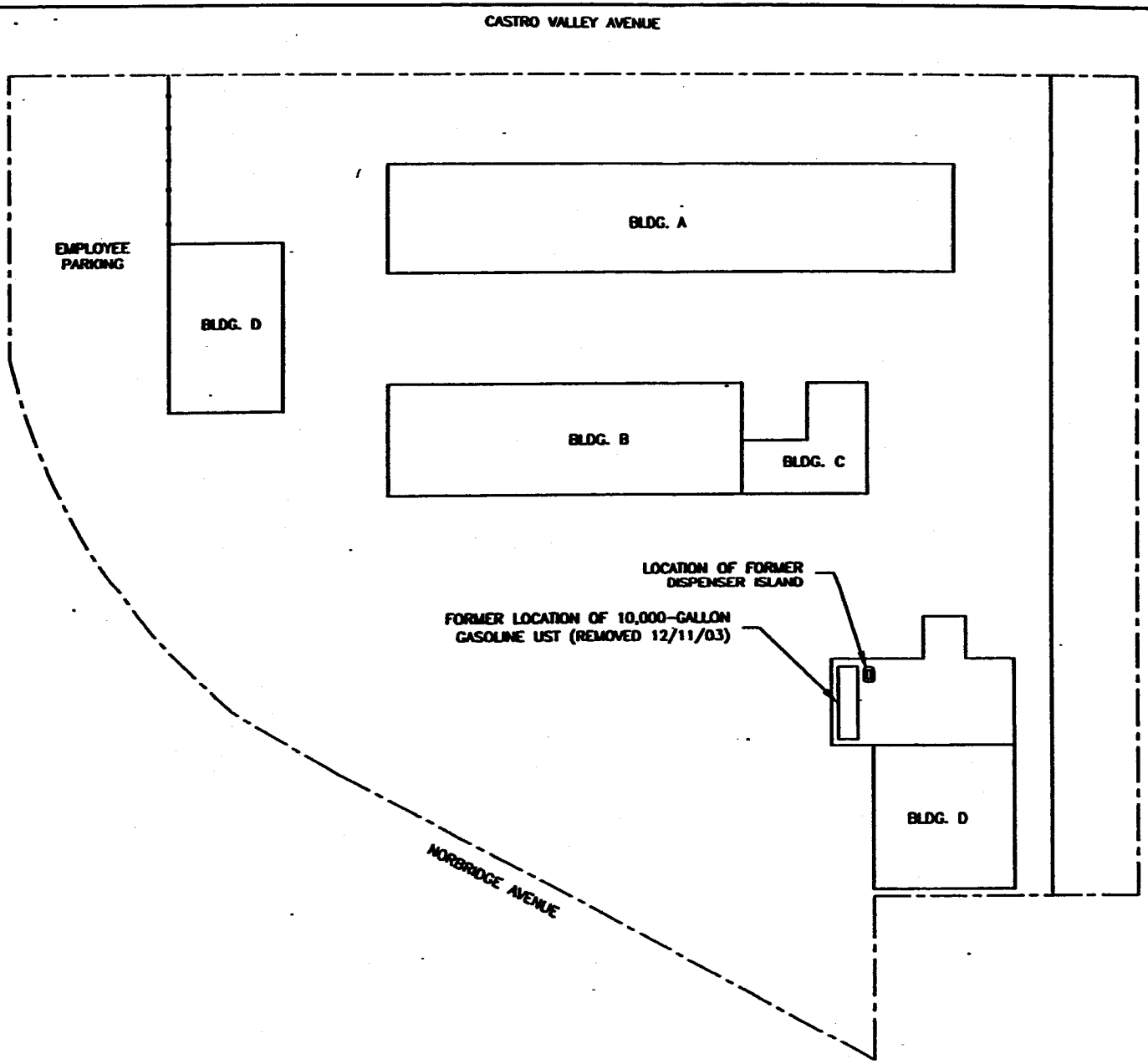
0 40 80 FEET

Shaw™ Shaw Environmental, Inc.

SBC
SAN RAMON, CALIFORNIA

FIGURE 3

SITE PLAN WITH GROUNDWATER SAMPLE ANALYTICAL RESULTS (12/11/03)
SBC FACILITY
2610 NORBRIDGE AVENUE
CASTRO VALLEY, CALIFORNIA



APPROXIMATE SCALE

0 40 80 FEET

Shaw™ Shaw Environmental, Inc.

SBC
SAN RAMON, CALIFORNIA

FIGURE 2

SITE PLAN

SBC FACILITY
2610 NORBRIDGE AVENUE
CASTRO VALLEY, CALIFORNIA

APPENDIX K

Waste Disposal

SHIPPER NO. B 016361

STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable

CARRIER NO.

AME OF CARRIER) ROMIC ENVIRONMENTAL TECHNOLOGIES CORP (SCAC)

DATE:

O

ONSIGNEE ROMIC ENVIRONMENTAL TECH. CORP

TREET 2081 BAY ROAD

ESTINATION EAST PALO ALTO, CA 94303 STATE ZIP

FROM

SHIPPER SBC

STREET 2610 NORBRIDGE AVE

ORIGIN CASTRO VALLEY, CA. 94546 CAT0S0021488 STATE ZIP

OUTE:

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER

NO. SHIPPING UNIT	O HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
4 ORM		NON HAZARDOUS WASTE One Drum was 446 (GROUND WATER) PRF# 354443	2096			
6 ORM		NON HAZARDOUS WASTE (SOIL) PRF#362015	4800P			
		BILL TO: HYDROLOGUE 2793 EAST FOOTHILL BLVD. PASADENA, CA 91107				
		RECEIVED BY:				
		PLACARDS TENDERED: YES NO				
		BILL WITH MANIFEST #: N/A P.O.# :				

MIT C.O.D. TO:

DRESS:

TY: STATE ZIP

COD AMT: $

C.O.D. Fee:

PREPAID ☐

COLLECT ☐ $

the shipment moves between two ports by a carrier by water, the law quires that the bill of lading shall state whether it is "carrier's or shipper's ight".

te. - where the rate is dependent on value, shippers are required to state ecifically in writing the agreed or declared value of the property.

e agreed or declared value of the property is hereby specifically stated by shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. (In writing the

(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES

Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

CEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), ked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the ract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of r any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the ditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

is is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

IPPER: SBC

CARRIER: ROMIC ENVIRONMENTAL TECH. CORP.

R: on behalf of SBC

PER: DW

DATE: 9/30/05

IERGENCY RESPONSE LEPHONE NUMBER: (18007664248

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

ark with "X" to designate Hazardous Material as defined in The Department of Transportation gulations Governing Transportation of Hazardous Materials. The use of this column is an optional ethod of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) the regulations governing the transportation of such materials.

1