NOzaki & Associates
3390 Dwight Way
Berkeley, California 94704

May 15, 2010

Mark Detterman
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Regarding: RO#0002869, Supplemental Environmental Data Report and Request for a no-further-action (NFA) closure at 1240 Powell Street, Emeryville, CA 94608

Dear Mr. Detterman:

Attached is a report that includes the most recent analytical results from the April 14, 2010 soil and groundwater sampling event at 1240 Powell Street in Emeryville, California (the Site). The environmental samples were collected pursuant to an approved Work Plan of October 26, 2009, as well as the incorporation of comments from the Alameda County Department of Environmental Health (ACDEH) for additional analytical testing (December 23, 2009). A copy of County's comments is attached to this report as Attachment A. The purpose of this report is to request a no-further-action closure from the Alameda County Department of Environmental Health (ACDEH).

Site use has not changed significantly since the construction of the present two-story building in 1982 and removal of the last underground storage tank in 1991. At present, the building is occupied by business offices and two health exercise studios. None of the businesses use industrial chemicals during the course of their business activities. No new information has surfaced regarding the site history since our previous report.

The Site has been the focus of a limited number of studies. Although low concentrations of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, toluene (BTEX), methyl-

tertiary-butyl ether (MTBE), 1,2-dichloroethane (1,2-DCA), n-butyl benzene, sec-butyl benzene, and n-propyl benzene have been reported in soil and groundwater in recently collected environmental samples, the only indication that the presence of residual chemicals might represent an environmental concern were six grab groundwater samples collected by AEI in 2002, which exceeded the current San Francisco Bay Regional Water Quality Control Board's (RWQCB) Environmental Screening Level (ESL) of 100 ug/L for $TPH_{gasoline}$ and TPH_{diesel} that apply to Shallow Soils ≤3m, and where groundwater is a current or potential source of drinking water (RWQCB 2007 Revised May 2008, Table A). 1,2-DCA was also found to exceed its ESL of 0.5 ug/L when the beneficial use classification of groundwater changed to a potential source of drinking water. Current and historical site-specific environmental data is presented in Tables 1 and 2 of this report.

With the exception of 1,2-dichloroethane (1,2-DCA), all groundwater samples collected onsite since 2005, including groundwater samples collected at MW-2 downgradient from SB-1 and SB-2, where AEI found the highest $TPH_{gasoline}$ and TPH_{diesel} concentrations, have been non-detect to date (Table 1). BTEX have never been detected in groundwater downgradient of the excavated service station USTs (Table 1).

Although low residual concentrations of 1,2-DCA remain in groundwater at MW-2 at this time, all other chemicals including MTBE detected prior to 2005 have diminished to non-detect levels. The detected concentrations of 1,2-DCA have also shown decreasing concentrations over the 7-year period from 2002 to 2009. When last tested in 2009, it found at a concentration of 4.1 ug/L (arithmetic average of the original sample and the duplicate), down from 5.1 ug/L in 2002. At a concentration of 4.1 ug/L compared with the Table B ESL for shallow soil and non-potable classified groundwater, an ESL of 200 ug/L, 1,2-DCA is insignificant. When compared with the Table A ESL for shallow soil and potable classified groundwater, an ESL of 0.5 ug/L, 1,2-DCA suddenly becomes a concern.

Since 1,2-DCA found in MW-2 is located in the street and does not pose a threat to the tenants of 1240 Powell, shallow groundwater is not used for drinking water in Emeryville, the potential source area for 1,2-DCA is beneath a parking lot, natural attenuation is evident at the site, and no

other chemicals are a concern at the Site, its presence does not pose a public health concern. Further, it appears that shallow groundwater in Emeryville is not suitable or potentially suitable for municipal or domestic water supply (MUN) consistent with the criteria identified in the *San Francisco Bay Basin (Region 2), Water Quality Control Plan (Basin Plan)*, January 18, 2007. Although MW-2 will produce an average greater than 300 gallons per day, because of the proximity of Emeryville to San Francisco Bay, the total dissolved solids will likely exceed 3000 milligrams per liter, and because Emeryville was formerly an industrial community, its groundwater is pervasively contaminated by industrial chemicals that cannot reasonably be treated for domestic use. Further, the state MCL for turbidity is 0.3 NTUs and the site-specific turbidity at MW-2 was an average of 76.7 NTU in 2004, 1.84 NTU as measured on September 20, 2005, and 59.5 NTU in 2009.

In conclusion, there is historical evidence that a petroleum hydrocarbon release most likely occurred during the period when the Site was used as a service station from the late 1950s until 1974. That evidence lies in the environmental sampling data collected by AEI in 2002. Whether due to natural attenuation over the 28 years since the 4 service station USTs were removed and when AEI performed their Phase II investigation, or because the spill was not significant release, the data collected by AEI in 2002 indicated the presence of a relatively small number of detected chemicals at relatively low concentrations. 1,2-DCA is the only remaining chemical found in groundwater at this time. Its last detected concentration of 4.1 ug/L exceeds its ESL of 0.5 ug/L when shallow groundwater is considered potential drinking water. However, groundwater at this site does not meet the criteria for MUN identified in the Basin Plan. All other chemicals are now at non-detect levels in groundwater (Table 1). This site represents a low threat to public health and the environment. The continued natural attenuation of 1,2-DCA will ensure this conclusion.

In view of the findings based on the presented data in the accompanying report, a no-further-action closure is requested for this Site. 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. If you have any questions or comments, please feel free to contact Mr.

Ron Silberman or me. I can be reached by telephone at 510-301-9869 or by email at nozaki4472@gmail.com.

Sincerely,

Norman T. Ozaki, Ph.D.
Principal Toxicologist

Peng Leong, PE
Principal ~~Geotechnical~~ Engineer

12/31/11

REGISTERED PROFESSIONAL ENGINEER
PENG K. LEONG
C039707
CIVIL
STATE OF CALIFORNIA

Attachment

cc: Ron Silberman

SUPPLEMENTAL
ENVIRONMENTAL DATA REPORT
And REQUEST FOR A NO-FURTHER-ACTION CLOSURE
1240 Powell Street
Emeryville, California 94608
RO#0002869

Prepared for:

Mr. Ron Silberman
1240 Powell Street Associates
5835 Doyle Street, Suite 101
Emeryville, CA 94608

Prepared by:

NOzaki & Associates
3390 Dwight Way
Berkeley, CA 94704

May 15, 2010

Table of Contents

Supplemental
Environmental Data Report
And Request for a No-Further-Action Closure
1240 Powell Street
Emeryville, California 94608

1.0 BACKGROUND

The property in question located at 1240 Powell Street in Emeryville, California, 94608 (the Site) has a history of land-use that dates to the 1930s and 1940s. The Site currently consists of approximately 10,000 square feet located at the northwest corner of Powell Street and Vallejo Street (see Figures 1 and 2). It has been improved with a two-story office building measuring approximately 12,200 square feet. The eastern portion of Site is improved with parking and landscaped areas.

Past Site characterization activities consisted of both Phase I and Phase II investigations including the installation of three groundwater monitoring wells (MW-1, MW-2, and MW-3) by AEI Consultants in September 2002. AEI concluded that soil and groundwater beneath the Site were affected by petroleum hydrocarbons apparently from an onsite release. Two subsequent rounds of groundwater sampling in October 2004, September 2005 were completed by SOMA Corporation (SOMA) and two rounds of environmental sampling in January 2009 and April 2010 were completed by NOzaki and Associates.

According to a Phase I report prepared by AEI Consultants (AEI, 2001a), the Site was vacant prior to the 1930s. AEI is an environmental consulting company that was retained by Wells Fargo Bank to perform various environmental studies of the Site. Their reports, and one by Aqua Science Engineers, Inc. (ASE, 1991), appear to be the only environmental studies completed and available concerning this Site. SOMA has been performing groundwater sampling and analyses since October 2004; however, since the

results of the sampling indicated either predominantly non-detect or declining concentrations of insignificant levels, no formal reports were prepared for the present owner. The SOMA and NOzaki and Associates groundwater data have been compiled and presented in Table 1. The laboratory data certificates are presented in Appendices A, B, C and E. Available reports and other accounts used in the preparation of this report are identified in the Reference section of this data report.

Although the property currently bears the address 1240 Powell Street, the property has been identified by other addresses throughout its history. According to AEI, the following addresses applied to this Site (AEI 2001a):

Table A. Variations in the Site Address.

Address	Date of Address	Land-Use
1250 Powell Street	1911 Sanborn Map	Vacant
1250 Powell Street	1930 Aerial	One small commercial building in the southeast portion of the lot.
1234 Powell Street	1968 Sanborn Map	Gas Station
5805 Vallejo Street	1968 Sanborn Map	Gas Station
1234 Powell Street	1969	Gas Station
1240 Powell Street	1981	Vacant

This data report summarizes the previously available reports and presents historical information and environmental data associated with the Site. In addition to presenting the most recent round of soil and groundwater sampling results, this report and the accompanying cover letter represent a request to Alameda County Department of Environmental Health (ACDEH) for a no-further-action file closure of the Site (NFA).

2.0 SITE HISTORY

According to AEI, the property was vacant land prior to 1930. A restaurant occupied the property during the 1940s and 1950s. Beginning in the late 1950s until 1974, the property was the site of a gas station. Record of two 6000-gallon USTs, one 2000-gallon

UST and one 550-gallon waste oil UST were documented in the files maintained by the Emeryville Building Department in 1969 (AEI 2002a). In that year, the northern-most 6000-gallon tank was replaced with a 10,000-gallon UST. In 1974, the gas station was demolished and all underground storage tanks (USTs) and above ground facilities were permitted for removal. No record of any soil or groundwater samples has remained from the removal activities. The Site was subsequently used as an open-air produce market until the early 1980s when the current two-story building present onsite was constructed for office use in 1982 (AEI 2001a). The site use has largely remained unchanged since the construction of the two-story office building.

A 4000-gallon gasoline UST was installed sometime after the completion of the office building in conjunction with business activities that were conducted at the Site. According to AEI, the 4000-gallon UST was used to fuel delivery trucks (AEI 2001a, 2002ab). This tank was scheduled for removal according to a permit issued by the Emeryville Fire Department and an *Underground Tank Closure Plan* approved by the Alameda County Department of Environmental Health on November 8, 1991 (ASE, 1991). The tank was successfully removed on November 22, 1991 (ASE 1991).

3.0 ENVIRONMENTAL HISTORY AND CHARACTERIZATION

Based on available documents, there are two sources of environmental concern in the history of the Site. The most recent was a 4000-gallon gasoline UST that was installed at the Site sometime after 1982. It was excavated and disposed offsite in 1991. The second source of environmental concern was the existence of a gasoline service station from the late 1950s through 1974, when the gas station was demolished.

3.1 The 4000-gallon UST

The 4000-gallon UST was installed sometime after construction of the two-story building and was used for storing and dispensing gasoline. Documents presented in the AEI Phase

I report indicate that the UST was owned by Frank Garza of Garza and Associates (AEI 2001a). It was removed for offsite disposal on November 22, 1991 under the oversight of Susan Hugo, then, the Project Specialist for the ACDEH and George Warren of the Emeryville Fire Department (ASE, 1991). AEI identified ASE as the UST removal contractor; however, because AEI failed to locate a removal report during their Phase I activities, they concluded that ASE did not file a removal report either with the Emeryville Fire Department or with ACDEH (AEI, 2001a). AEI indicated that they performed a follow-up interview with ASE in conjunction with their Phase I activities (AEI 2001a). AEI was told that ASE recalled removing the UST; however, it appears that ASE did not mention their December 4, 1991 UST removal report.

ASE completed a tank removal report entitled, *Project Report, Underground Storage Tank Removal at Garza and Associates, 1240 Powell Street, Emeryville, CA 94608*, on December 4, 1991. The report was prepared for Mr. Frank Garza. It appears that either Frank Garza or ASE submitted the report to ACDEH. There is a date stamp on the title page of the report with the date, December 19, 1991, 12:23 PM, although it has not been verified that the date stamp belongs to ACDEH. SOMA obtained the report from ACDEH and the date stamp approximates the date of the report.

As of 2005, the regulatory status of the 4000-gallon UST had not been resolved. A subsequent file review of the documents in ACDEH's files yielded among other things, hand written notes submitted by "SH" (presumably Ms. Susan Hugo) indicating that she had approved ASE's tank removal work plan on November 8, 1991. ASE's December 4, 1991 *Underground Storage Tank Removal Report* contains a copy of the work plan with an official ACDEH stamp signed by Susan Hugo approving the work plan on November 8, 1991. Further, her notes indicate that the UST was removed on November 22, 1991, and her entry for November 25,1991 indicated that laboratory analytical results, presumably resulting from the environmental samples collected according to her

directions (in the work plan), were all non-detect for "both TPH gasoline & BTX&E" (Table 2). (A copy of these notes is attached to this report as Appendix D.)

A review of ASE's report of December 4, 1991 indicates that the 4000-gallon UST was removed on November 22, 1991. Visual inspection of the tank, as reported by ASE, revealed the absence of corrosion and evidence of leaks, the underlying soil showed no signs of gasoline contamination, no gasoline odors, and air quality monitoring as measured with a field instrument (TEI organic vapor analyzer model 580A) at the time of removal showed no evidence of organic vapors near the edge of the excavation (ASE 1991). The analytical results from the soil samples collected beneath the tank and from the stock piled soil were all non-detect for $TPH_{gasoline}$, benzene, toluene, ethylbenzene, and xylene (Table 2). Although tetraethyl lead was phased out beginning in 1976, and by 1979 methyl tertiary butyl ether (MTBE) was in use, it appears that ASE included lead in its analytical suite. Tetraethyl lead is considered volatile in a mixture of gasoline and unless lead as tetraethyl lead is extracted from environmental samples as a volatile, it will be lost if standard extraction methods for metals are used. Very low concentrations of total lead were reported, well below the concentration acceptable for residential land use. The detected concentrations appear to be within natural background concentrations rather than attributable to anthropogenic sources (Table 3). According to ASE, the tank removal activities of November 22, 1991 were witnessed by Susan Hugo and George Warren. There is an absence of any documentation indicating that ACDEH had issued any UST NFA closure approval based on ASE's 1991 UST Removal Report.

ASE followed an ACDEH-approved work plan for environmental sampling following the removal of the 4000-gallon UST. In view of the fact that all soil samples collected by ASE did not indicate the presence of any residual TPH as gasoline-related chemicals, an NFA closure of this UST is appropriate at this time, and is requested by Ron Silberman, the current property owner.

3.2 Gasoline Service Station

According to historical documents identified by AEI, a gasoline service station existed onsite from the late 1950s through 1974 (AEI 2001a). The service station consisted of two 6000-gallon USTs, one 2000-gallon UST, and one 550-gallon waste-oil UST. In 1969, the northern 6000-gallon UST was replace with a 10,000-gallon UST (Figure 2). According to an Emeryville Building Permit dated June 27, 1974, "…all above ground and below ground facilities" were identified for removal (AEI 2001a). No record of actual removal or any soil or groundwater samples have been recorded from the demolition of the service station (AEI 2002a).

In the absence of any environmental data documenting the environmental conditions resulting from the USTs used at the service station, on February 7, 2002, AEI Consultants (AEI) performed Phase 2 environmental sampling at the request of Wells Fargo Bank. AEI drilled 8 shallow soil borings (SB-1 through SB-8) and collected soil and grab groundwater samples. According to AEI, the boring locations were selected based on the locations of the USTs and associated piping (Figure 2). During the boring activities, AEI reported fuel hydrocarbon odors at depth in borings SB-1, SB-2 and SB-5. An evaluation of the boring logs and groundwater analytical results indicated the highest concentrations of residual concentrations of $TPH_{gasoline}$ and TPH_{diesel} in groundwater at these locations, as well as at SB-8 (Table1 and 2); however, soil samples did not reflect the presence of odors. For reasons not made clear, no soil samples were collected at SB-2. The boring log simply indicated low soil recovery for an interval of 4 feet between 4 to 8 feet bgs.

SOMA used Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control District (RWQCB) to evaluate the significance of the chemical concentrations detected at the site. RWQCB has indicated that ESLs for shallow groundwater less than 3 meters below ground surface where the groundwater is a current or potential source of drinking water should be used in reference to the Site.

Relatively low concentrations of TPH gasoline and TPH diesel were detected by AEI in soil (47 mg/kg and 5.8 mg/kg respectively) at one sampling location, SB-1 in 2002 (Figure 2, Table 2). These two concentrations are considerably lower than the Environmental Screening Levels (ESLs) established by RWQCB for commercial/industrial and residential land use. The ESLs used for evaluating the significance of the residual concentrations of $TPH_{gasoline}$ and TPH_{diesel} in soil is 83 mg/kg, and is found in Table A of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater* (RWQCB 2007 Revised 2008). Table A criteria apply to Shallow Soils (≤3m bgs) where groundwater is a current or potential source of drinking water. No residual concentrations of benzene, toluene, ethylbenzene, xylene (BTEX), MTBE, and 1,2-dichloroethane 1,2-DCA), that were found in groundwater were found in soil during AEI's Phase 2 investigation (Tables 1 & 2).

As noted in Basics Environmental (Basics) 2008 *Environmental Transaction Screen* review of AEI's two environmental reports (AEI 2002ab), groundwater analytical results showed the presence of low concentrations of petroleum hydrocarbons as $TPH_{gasoline}$ and TPH_{diesel} including BTEX, MTBE, and 1,2-DCA (Basics 2008). Six groundwater samples collected from soil borings exceeded RWQCB's ESL for $TPH_{gasoline}$ and TPH_{diesel} at SB-1W, SB-2W, SB-5W, and SB-8W (Table 1). These samples were collected from soil borings in 2002 by AEI (AEI 2002a). The elevated results in the soil borings may have been due to the fact that these early groundwater samples were grab groundwater samples and may have contained soil in the sample.

Subsequently, AEI installed three groundwater monitoring wells on behalf of Wells Fargo Bank. The well locations were surveyed in by Mr. David Logan (California Professional land Surveyor No. 5003) on August 15, 2002 (AEI 2002b). Groundwater elevation data are presented in Table 4. The groundwater gradient and flow direction based on the data in Table 4 are presented in Figures 3A through 3D, and summarized in Figure 3. The relationship of MW-2 to the dispensing stations and the USTs that were

used at the service station, including SB-2, is downgradient each time MW-2 was sampled (Figure 3).

The one UST location that was inaccessible at the time AEI performed their Phase II investigation was the former location of the 550-gallon waste-oil UST. It appears to be beneath the foundation of the 2-story building (Figure 2). On October 21, 2009, an electro-magnetic utility survey was completed to identify a suitable location for a soil boring. It was confirmed that the 550-gallon waste oil UST was not longer present as indicated in the historical site map (Figure 2). Based on the results of the survey, a downgradient boring location (B-2) adjacent to the former location of the UST was identified and included in the Work Plan of October 26, 2009, which was approved by ACDEH.

On April 14, 2010, the Boring B-2 was installed using a hydraulic direct-push portable drilling rig. The boring location was measured to be approximately one-foot from the measured southern corner of the UST. The boring was installed to a depth of 16 feet without encountering groundwater. A soil sample collected at 8 feet was submitted for laboratory analyses. This sample was selected for three reasons: 1) the water level in the adjacent monitoring well at MW-3 was measured to be 8.5 feet bgs, 2) there was a stratigraphic change from soil that was predominantly sand and gravel to moist, clayey soils and a color change from brown to tan-brown at 8 feet, and, 3) it was thought that any UST release would begin to spread laterally as well as vertically at the clay layer and should show up in a soil sample at this depth. The PID monitor used during the drilling did not register any concentration of significance and no petroleum odors were encountered during drilling (Figures 4 and 5).

The B-2, 8-foot soil sample was analyzed for:

- $TPH_{gasoline}$(8015Bm)
- TPH_{diesel} (SW8015B)
- $TPH_{motor\ oil}$ (SW8015B)

- BTEX & MTBE (SW8021B)
- LUFT Metals (SW6010B)
- PAHs (SW8270C SIM by GC/MS)
- VOCs (SW6260B)
- PCBs (SW8082)
- Petroleum Oil & Grease with Silica Gel Clean-up (SM5520E/F)

Boring B-2 was drilled to a depth of 16 feet without encountering groundwater. This finding was inconsistent with the presence of groundwater at 8.5 feet in the nearby monitoring well MW-3.

The results of the April 14, 2010 site investigation resulted in new information about the environmental conditions associated with the former waste oil UST (Figure 2). No analytes were found in soil at Boring B-2 despite subjecting the soil to nine different laboratory analytical methods. The results of the laboratory analyses of the soil sample from boring B-2 indicated absence of TPH $_{gasoline}$, TPH_{diesel}, Petroleum oil and grease confirmed by the absence of $TPH_{motor\ oil}$, BTEX and MTBE, PAHs, PCBs, and VOCs, that is, all chemicals tested for. Of the LUFT metals, lead and cadmium were reported as not detected, while detected concentrations for chromium, nickel, and zinc resembled naturally occurring background concentrations. The results of the chemical analyses indicate that soil downgradient from the former waste oil UST are free of chemicals associated with a potential UST release. Based on the absence of any chemicals at B-2, it would be safe to say that there is evidence that the former waste oil UST did not leak.

Boring B-1, was located downgradient from the service station UST source areas and was sited so that a shallow groundwater sample could be collected at the top of the water table. Unfortunately, groundwater was not encountered despite drilling to a depth of 16 feet. This finding was puzzling in view of the fact that groundwater was found at 9 feet in the adjacent monitoring well MW-2. The soil sample from the 9-foot depth interval

was submitted for laboratory analyses. This depth was chosen because the groundwater level in the adjacent groundwater monitoring well was found to be at 9 feet, and the highest photoionization detector (pid) reading of 12.3 parts per million (ppm) occurred at 9 feet. Three additional soil samples were collected at 6 feet, 12 feet and 16 feet and were requested to be held pending the results of the 9-foot sample. These samples have not been tested as of this date.

Only six analytes were detected in soil at a depth of 9 feet at B-1 ($TPH_{gasoline}$, TPH_{diesel}, xylene, n-butylbenzene, sec-butylbenzene, and n-propylbenzene). Since TPH will float on top of a water column, the 9-foot soil sample was analyzed for TPH-related chemicals. The chemical concentrations of $TPH_{gasoline}$, TPH_{diesel}, xylene did not exceeded residential soil ESLs (Table 2). Because there are no ESLs for n-butyl benzene, sec-butyl benzene, and n-propyl benzene, a quantitative screening risk assessment method was used to estimate whether these three chemicals might be a public health concern. As suggested by the Office of Environmental Health Hazard Assessment (OEHHA), the RfD for Cumene (CASRN 98-82-8) or isopropyl benzene identified by the US Environmental Protection Agency in their Integrated Risk Information System (IRIS) was used as a surrogate toxicity criterion to evaluate incidental ingestion as a potential exposure pathway. The calculated hazard index was four orders of magnitude lower (0.00015) than the RfD indicating that potential adverse health effects for a residential child from ingestion of soil at B-1 would not likely pose a threat to public health (Attachment B). The calculated hazard index was five orders of magnitude lower (0.000016) than the RfD indicating that potential adverse health effects for a residential adult from ingestion of soil at B-1 would not likely pose a threat to public health (Attachment B).

4.0 CONCLUSIONS

There appears to be adequate information about the 4000-gallon UST in ASE's 1991 report entitled, *Project Report, Underground Storage Tank Removal at Garza and Associates, 1240 Powell Street, Emeryville, California* to warrant a NFA closure. No residual TPH-related chemicals were found in the soil after removal. This situation was confirmed by visual observations of the condition of the UST during removal, the absence of TPH-related odors from the soil, and the condition of the surrounding soil as acknowledged by

Susan Hugo in 1991 (ACDEH nd). In view of the available documentation and Susan Hugo's verification of the findings, a no-further-action closure is requested for this UST.

After groundwater sampling in 2002, analytical results indicated that relatively low concentrations of $TPH_{gasoline}$, TPH_{diesel}, BTEX, MTBE, and 1,2-DCA were detected in groundwater (Table 1). During the last round of groundwater sampling in 2009, all TPH-related chemicals were non-detect with the exception of 1,2-DCA. It was detected at a concentration of 4.1 ug/L (Table 1). Residual concentrations of 1,2-DCA over time reflected a decreasing concentrations from 5.1 ug/L in 2002 to 4.1 ug/L in 2009. Under the circumstances discussed in the report, a NFA closure is requested for the 4 service station USTs including the former waste oil UST.

5.0 REFERENCES

Alameda County Department of Environmental Health (ACDEH). No Date (ND). Hand-entered notes from Ms. Susan Hugo on a ACDEH form. Each of her observations is dated. (See Appendix D for copy).

AEI. 2001a. *Phase I, Environmental Site Assessment, 1240 Powell Street, Emeryville, California 94608.* December 20.

AEI. 2001b. Letter Summary of *Phase I Environmental Site Assessment*. Letter report from Holly Gannaway, REA to Mr. William Rauch, Wells Fargo Bank RETECHS dated December 20, 2001.

AEI. 2002a. *Phase II, Subsurface Investigation, 1240 Powell Street, Emeryville, California 94608.* February 15.

AEI. 2002b. *Groundwater Monitoring Well Installation & Initial Monitoring Report, 1240 Powell Street, Emeryville, California 94608.* September 5.

Aqua Science Engineers, Inc. 1991. *Project Report, Underground Storage Tank Removal at Garza and Associates, 1240 Powell Street, Emeryville, California 94608.* December 4.

Basics Environmental (Basics). 2008. *Environmental Transaction Screen, 1240 Powell Street, Emeryville, California.* December 3.

California Environmental Protection Agency (Cal EPA), Department of Toxic Substances Control (DTSC). 1992. *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities.* July.

Cal EPA (DTSC). 1994. *Preliminary Endangerment Assessment Guidance Manual.* January.

Environmental Sampling Services. 2004. *October 2004 Groundwater Monitoring Event Sampling for 1240 Powell Street, Emeryville, California.* November 3.

Integrated Risk Information System (IRIS). Searchable online database: http://cfpub.epa.gov/ncea/iris/index.cfm?fuseaction=iris.showSubstanceList.

McCampbell Analytical, Inc. 2004. Laboratory certificates from the October 27, 2004 sampling event.

McCampbell Analytical, Inc. 2005. Laboratory certificates from the September 20, 2005 sampling event.

McCampbell Analytical, Inc. 2009. Laboratory certificates from the January 8, 2009 sampling event.

McCampbell Analytical, Inc. 2010. Laboratory certificates from the April 14, 2010 sampling event.

San Francisco Bay Regional Water Quality Control District (RWQCB). 2007. *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater.* Revised May 2008.

San Francisco Bay Regional Water Quality Control District (RWQCB). 2007. *San Francisco Bay Basin (Region 2), Water Quality Control Plan (Basin Plan). January 18.*

United States Environmental Protection Agency (U.S. EPA). 1991. *Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual. Supplemental Guidance: "Standard Default Exposure Parameters".* Interim Final. March.

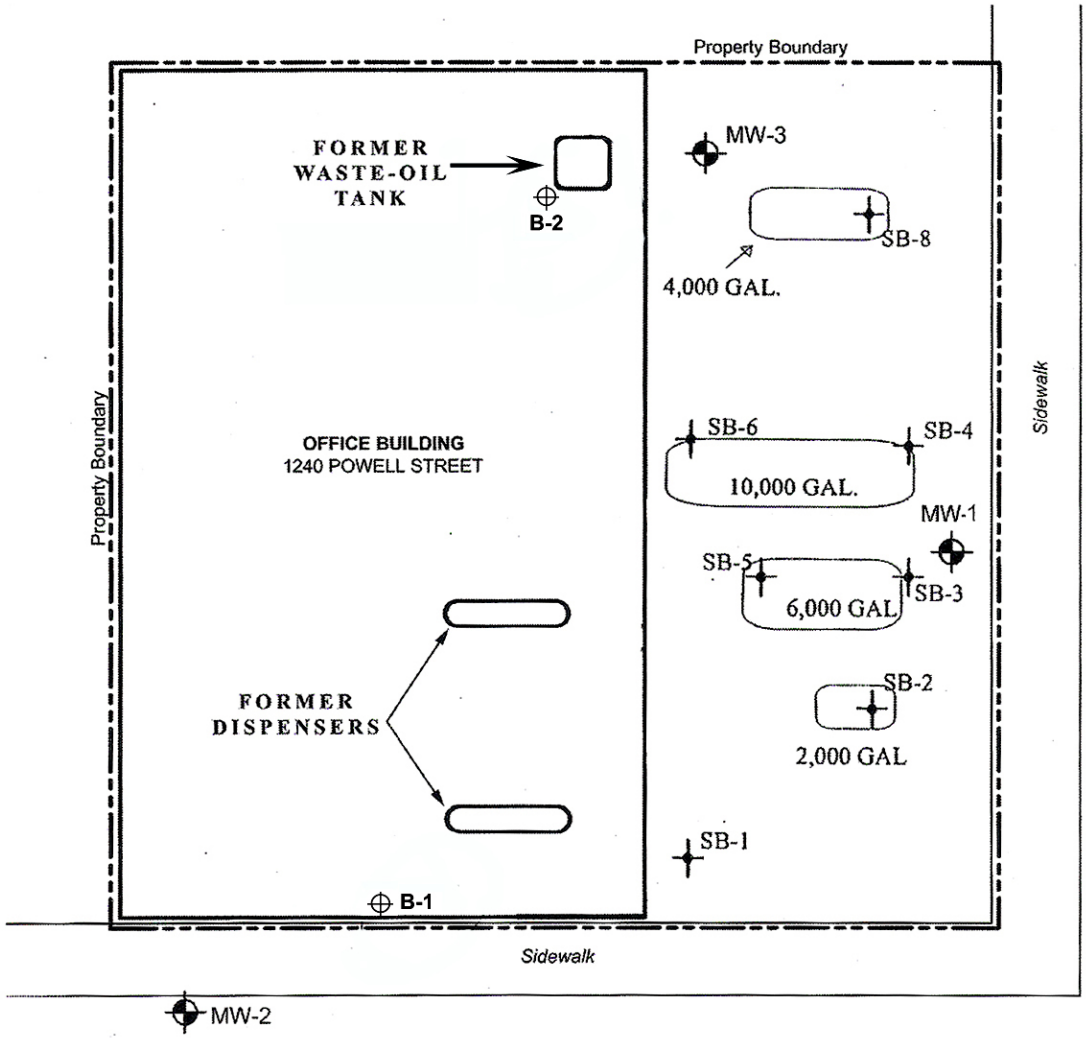
U.S. EPA. 1997. *Exposure Factors Handbook. Volume I: General Factors.* Office of Research and Development.

U.S. EPA. 2000. *Region 9 Preliminary Remediation Goals (PRGs) 2000.* November 1.

FIGURES

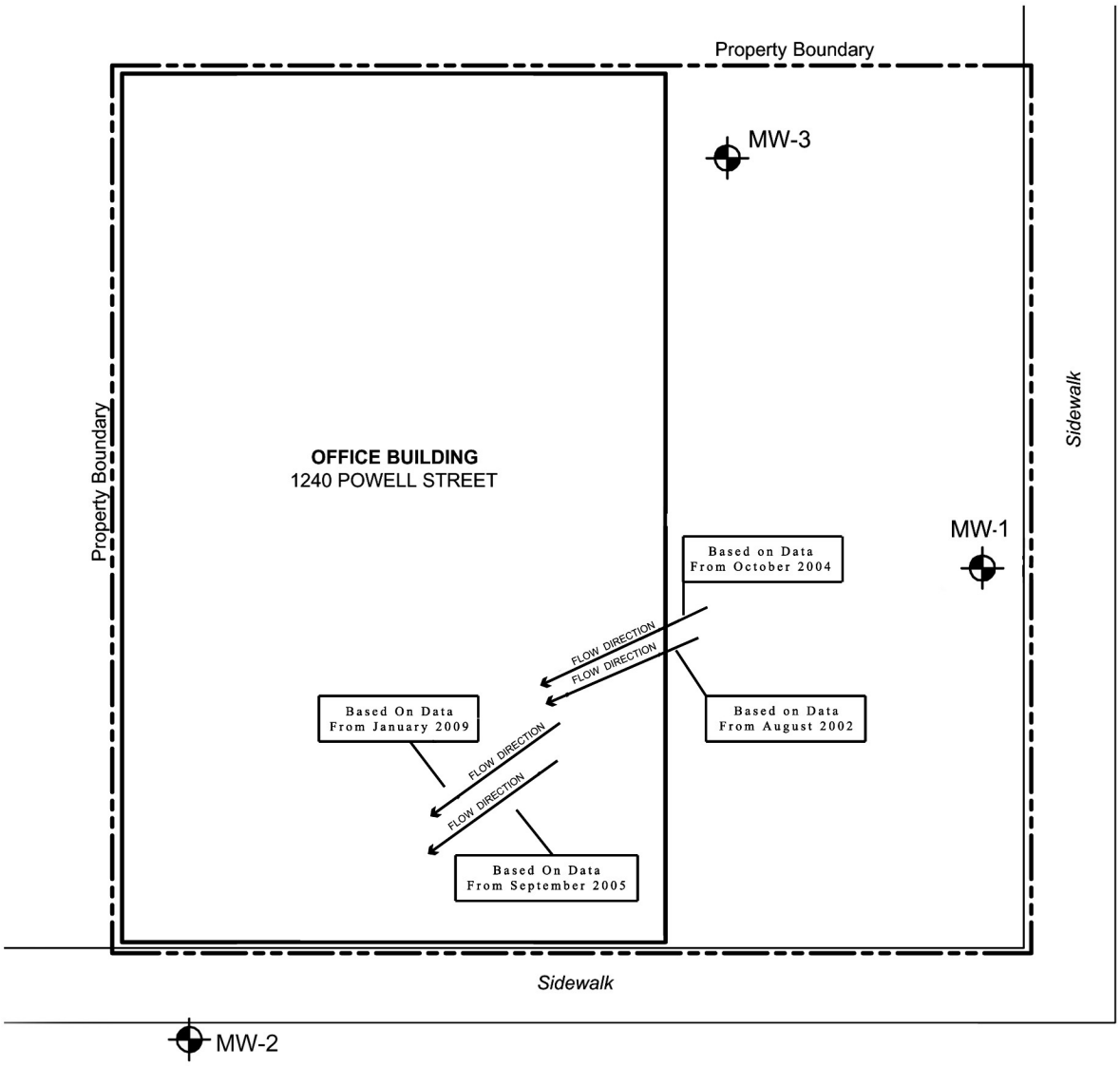
SOURCE: USGS Map 7.5 Min Series (Topographic) BERKELEY QUAD, California, Terraserver.

FEBRUARY 2009 NOzaki & Associates	**SITE LOCATION MAP** 1240 POWELL STREET EMERYVILLE, CALIFORNIA	**FIGURE 1**



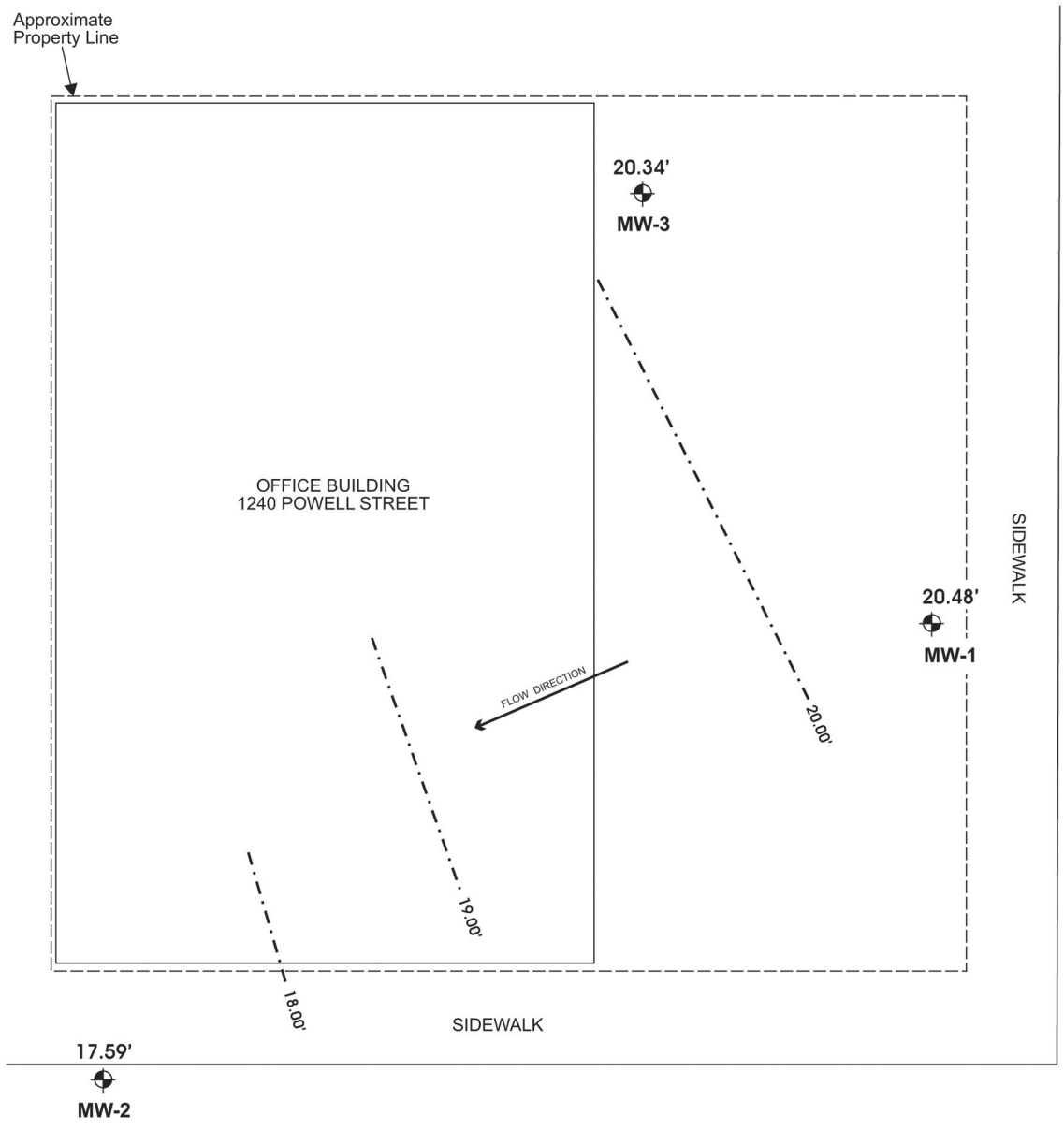
BASED ON ENVIRON WELL LOCATION MAP 5/28/2008 & AEI CONSULTANTS MAPS

MAY 2010	HISTORICAL SITE DRAWING	FIGURE 2
NOzaki & Associates	1240 POWELL STREET EMERYVILLE, CALIFORNIA	

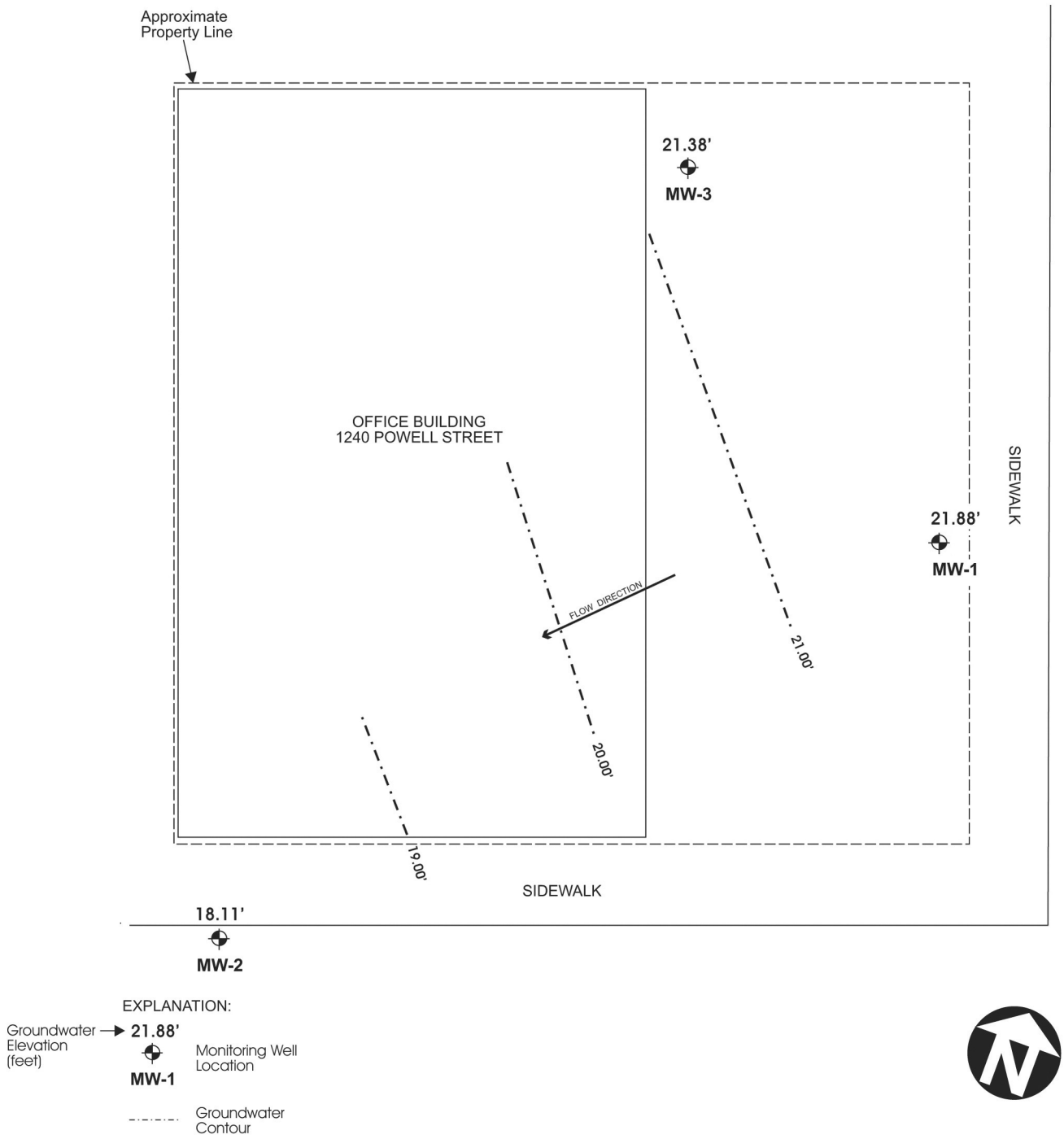


BASED ON ENVIRON WELL LOCATION MAP 5/28/2008 & AEI CONSULTANTS MAPS

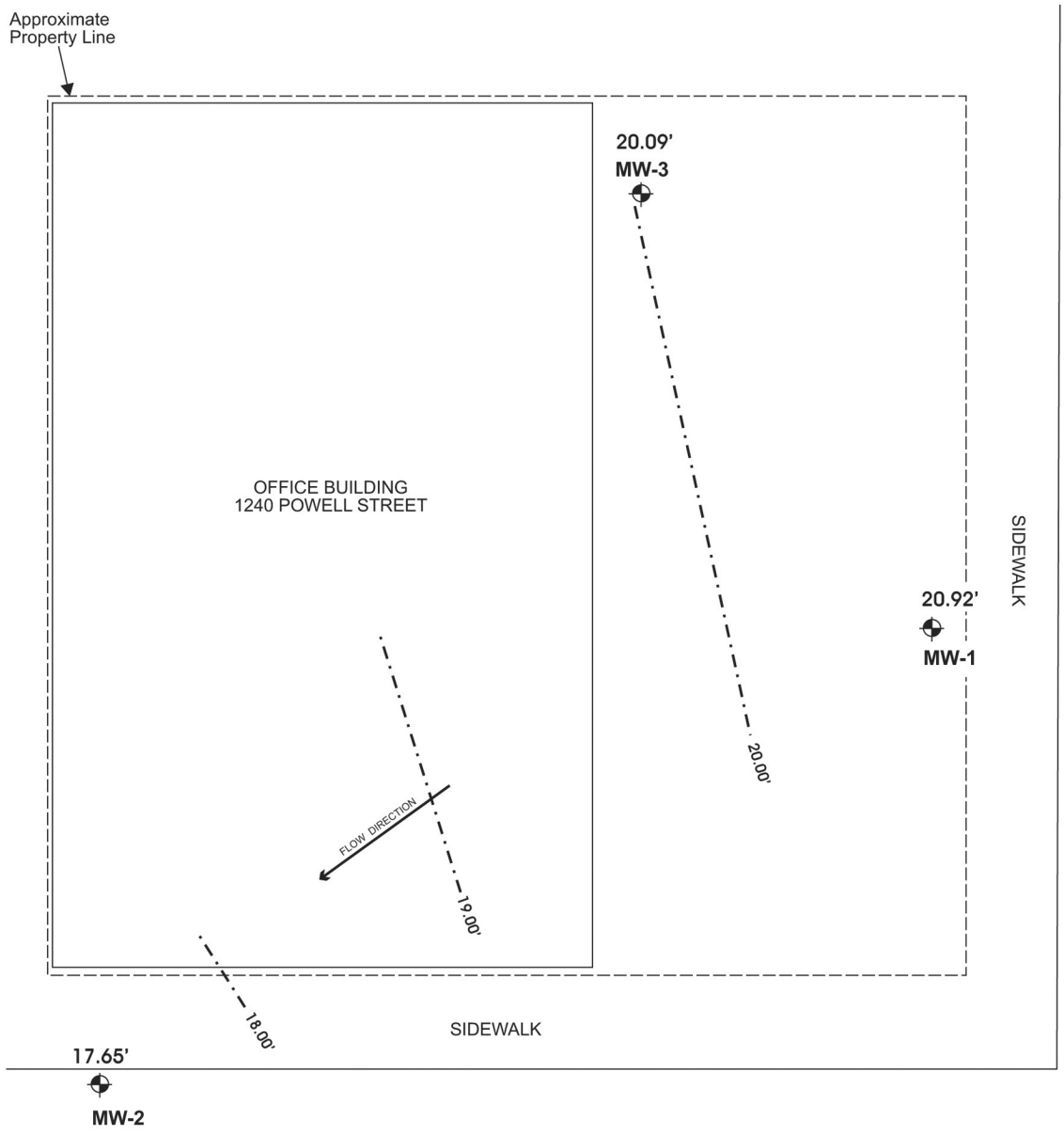
FEBRUARY 2009	CURRENT SITE LAYOUT	FIGURE 3
NOzaki & Associates	1240 POWELL STREET EMERYVILLE, CALIFORNIA	



Scale: 1" : ± 20'	February 2009	GROUNDWATER ELEVATIONS - AUGUST 2002 1240 Powell Street Emeryville, California	Figure 3A
NOzaki & Associates			



Scale: 1" : ± 20'	February 2009	GROUNDWATER ELEVATIONS - OCTOBER 2004 1240 Powell Street Emeryville, California	Figure 3B
NOzaki & Associates			



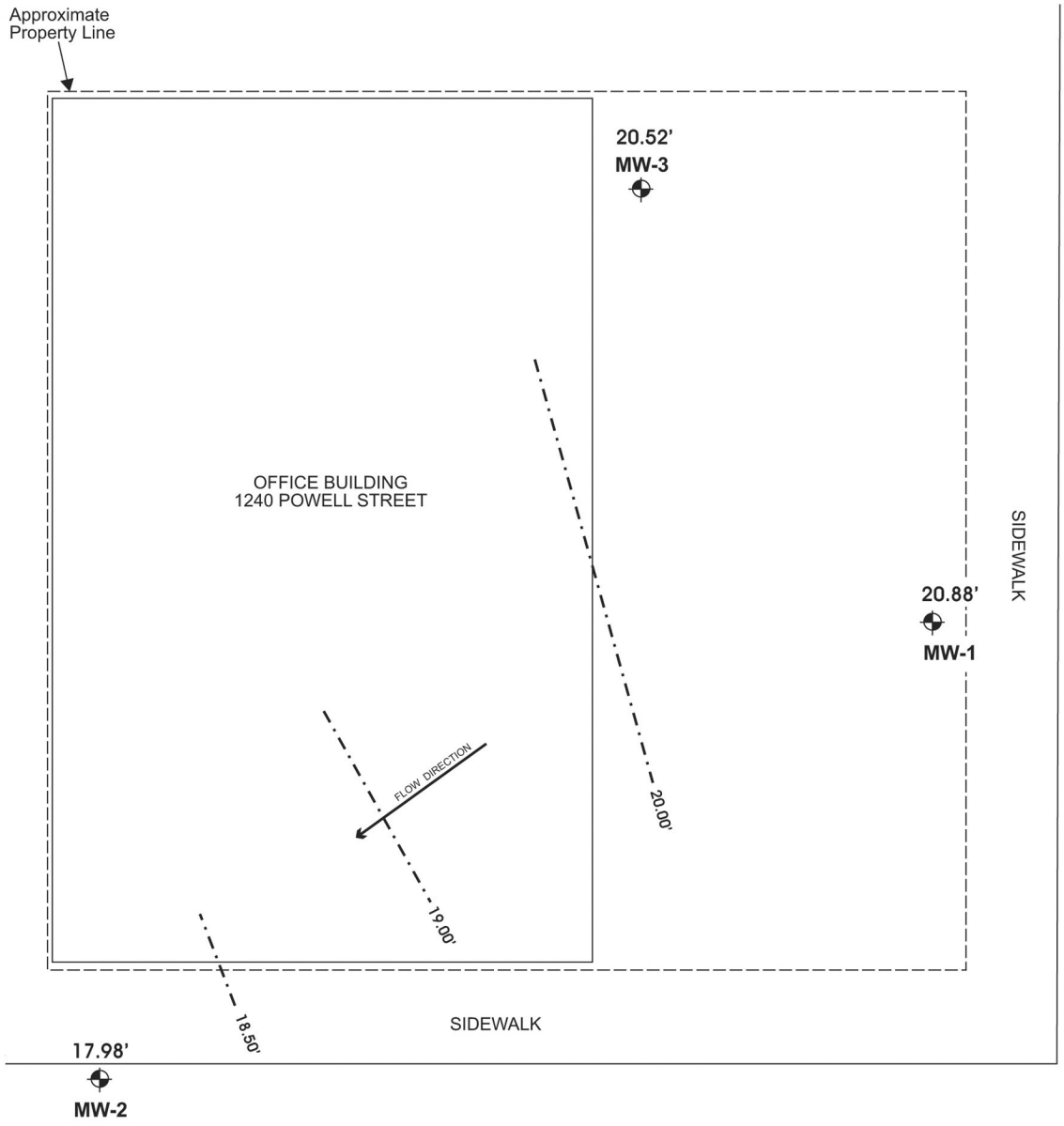
EXPLANATION:

Groundwater Elevation (feet) → 20.92'

MW-1 — Monitoring Well Location

Groundwater Contour

Scale: 1" : ± 20'	February 2009	GROUNDWATER ELEVATIONS - SEPTEMBER 2005 1240 Powell Street Emeryville, California	Figure 3C
NOzaki & Associates			



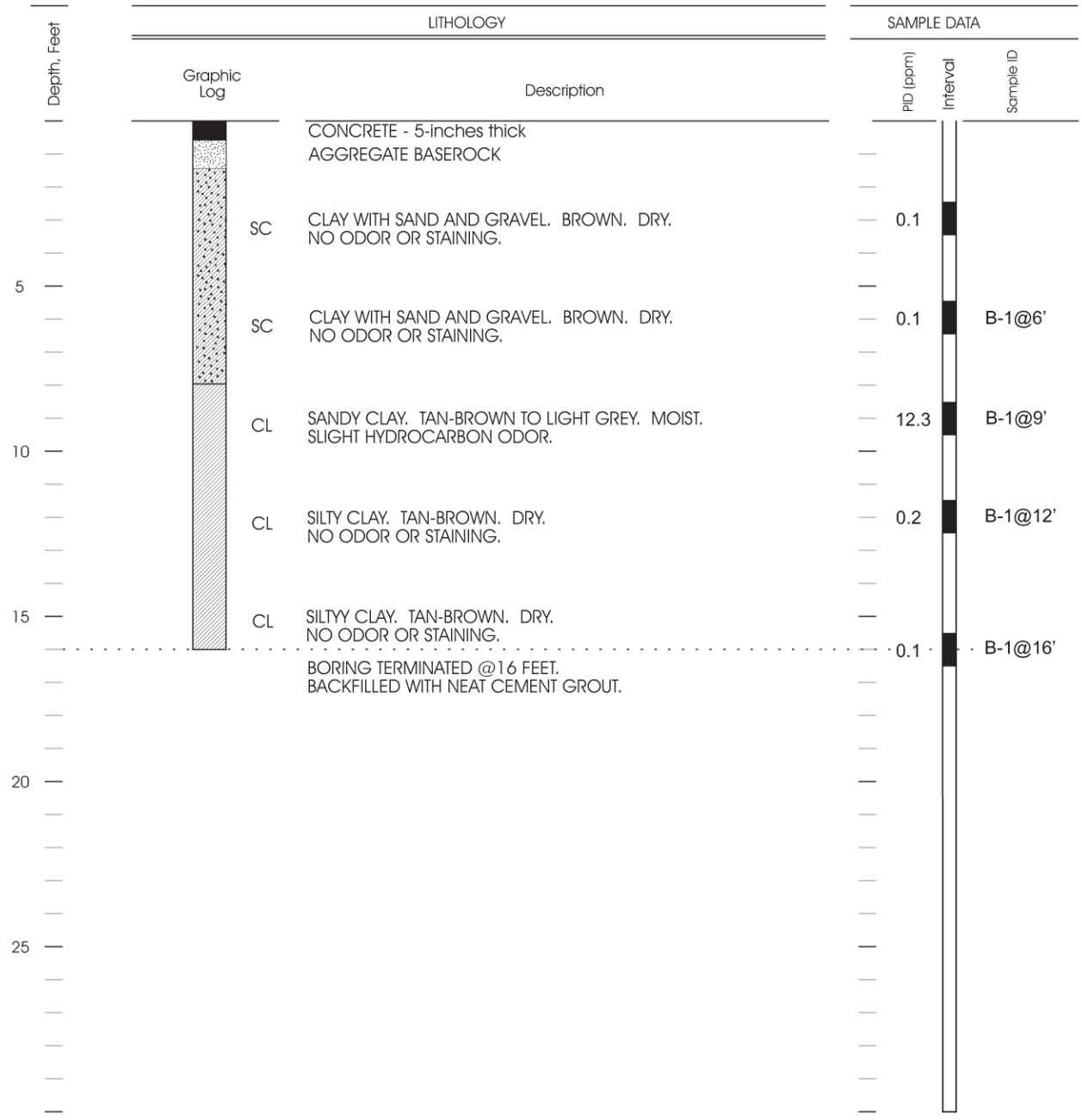
EXPLANATION:

Groundwater Elevation (feet) → 20.88'

MW-1 Monitoring Well Location

Groundwater Contour

Scale: 1" : ± 20'	February 2009	GROUNDWATER ELEVATIONS - JANUARY 2009 1240 Powell Street Emeryville, California	Figure 3D
NOzaki & Associates			



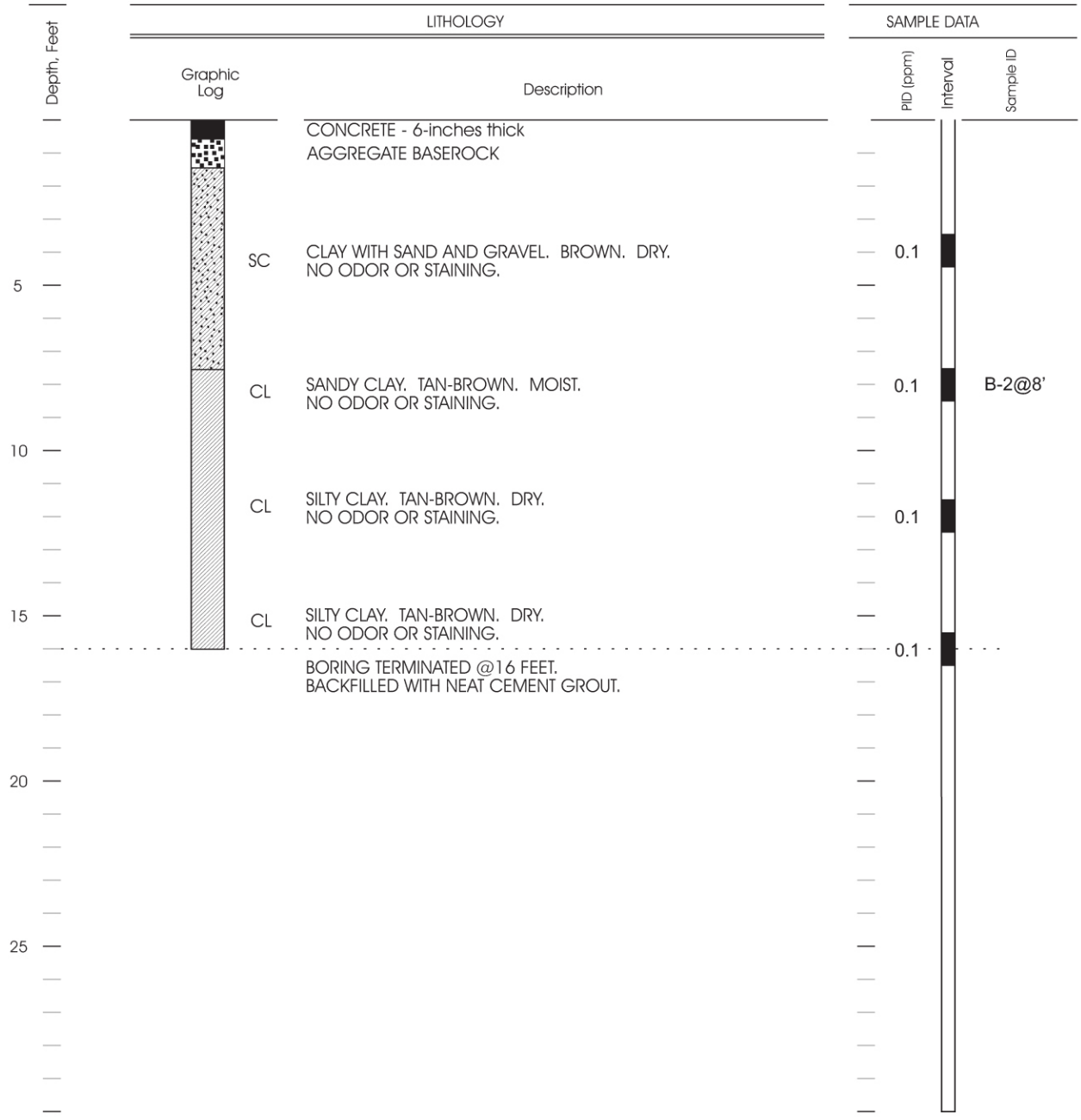
MAY 15 2010

NOzaki & Associates

FIELD & LITHOLGIC LOG FOR SOIL BORING B-1

1240 POWELL STREET, EMERYVILLE, CA

FIGURE 4



MAY 15 2010	FIELD & LITHOLGIC LOG FOR SOIL BORING B-2	FIGURE 5
NOzaki & Associates	1240 POWELL STREET, EMERYVILLE, CA	

TABLES

Table 1. Historical Groundwater Data (ug/L)

Sample ID	Date	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	1,2-DCA
SB-1W	02/07/2002	**320**	**230**	<0.5	<0.5	**5.2**	**3.3**	<5.0	-
SB-2W	02/07/2002	**1400**	**1400**	**5.7**	**3.0**	**3.3**	**4.0**	<5.0	-
SB-3W	02/07/2002	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5	**5.7**	-
SB-4W	02/07/2002	<5.0	<5.0	<0.5	<5.0	<0.5	<0.5	<5.0	-
SB-5W	02/07/2002	**71**	**200**	<0.5	**1.5**	<0.5	<0.5	<5.0	-
SB-6W	02/07/2002	<5.0	<5.0	<0.5	<0.5	<0.5	<0.5	<5.0	-
SB-8W	02/07/2002	<5.0	**580**	<0.5	<0.5	<0.5	<0.5	<5.0	-
MW-1	08/13/2002	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5
MW-1	10/27/2004	<50	<50	<0.5	<0.5	<0.5	<0.5	**0.71**	<0.5
MW-1	09/20/2005	<50	<50	<0.5	<0.5	<0.5	<0.5	**0.64**	<0.5
MW-1	01/08/2009	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2	08/13/2002	<50	**81**	<0.5	<0.5	<0.5	<0.5	<5.0	**5.1**
MW-2	10/27/2004	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**4.2**
MW-2	09/20/2005	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**3.9**
MW-2	01/08/2009	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**4.8**
MW-3	08/13/2002	<50	**130**	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5
MW-3	10/27/2004	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	09/20/2005	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	01/08/2009	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3-Dup	10/27/2004	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-2-Dup	09/20/2005	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	**4.0**
MW-2-Dup	01/08/2009	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	**3.3**

Note: SB-1 through SB-8 were grab groundwater samples.
SB-1 through SB-8 non-detected compounds were reported as the method detection limit (MDL).
"-" Indicates not analyzed.
MW-Dup for the 12/27/2004 sampling was colleced at MW-3.
MW-Dup for the 09/20/2005 sampling was colleced at MW-2.
MW-Dup for the 01/08/09 sampling was colleced at MW-2.

Table 2. Historical Soil Data (mg/kg)

Sample ID	Date	Depth (feet)	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	TPH Oil and Grease	TPH Motor Oil SW8015B)	VOCs (8260)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	n-Butyl benzene	sec-Butyl benzene	n-Propyl benzene	PAH SW8270C
GRZ West	11/22/1991	9	<1.0	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRZ East	11/22/1991	9	<1.0	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRZSTKP1-4	11/22/1991	††	<1.0	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB-1	02/07/2002	8	**47**	**5.8**	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB-3	02/07/2002	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB-4	02/07/2002	8	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB-5	02/07/2002	6	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB-6	02/07/2002	8	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB-7	02/07/2002	8	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB-7	02/07/2002	12	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB-7	02/07/2002	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	<0.005*	-	-	-	-	-	-	-	-	-	-	-	-
SB-8	02/07/2002	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	08/13/2002	11	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	08/13/2002	11	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	08/13/2002	11	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-1	04/14/2010	9	**59**	**9.8**	<0.10	<0.10	<0.10	**0.17**	<1.0	-	<5.0	-									**0.47**	**0.28**	**0.44**	-
B-2	04/14/2010	8	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	<50	<5.0	<0.005*	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005

Notes: " - " The dash indicates the sample was not analyzed.

†† This soil sample was a four point composite of the stockpiled soil resulting from the excavation.

* Reporting limit varied with chemical.

** Elevated reporting limits were due to matrix interference requiring a dilution factor of 20.

Reporting limit indicated is the method detection limit (MDL).

Table 3. Metals Soil Data (mg/kg)

Sample ID	Date	Depth (feet)	Cadmium	Chromium	Lead	Nickel	Zinc
GRZ West	11/22/1991	9	-	-	<0.5	-	-
GRZ East	11/22/1991	9	-	-	5.50	-	-
GRZSTKP1-4	11/22/1991	††	-	-	4.96	-	-
SB-7	02/07/2002	12	<0.5	26	5.7	40	41
B-2	04/14/2010	8	<1.5	34	<5.0	27	43

Notes: †† This soil sample was a four point composite of the stockpiled soil resulting from the excavation.

Table 4. Groundwater Elevation Data

Location	Date Sampled	Depth to Water (feet, TOC)	Top of Casing* (feet)	Groundwater Elevation (feet)
MW-1	08/13/2002	7.69	28.17	20.48
	10/27/2004	6.29	28.17	21.88
	09/20/2005	7.25	28.17	20.92
	01/08/2009	7.29	28.17	20.88
MW-2	08/13/2002	8.58	26.17	17.59
	10/27/2004	8.06	26.17	18.11
	09/20/2005	8.52	26.17	17.65
	01/08/2009	8.19	26.17	17.98
MW-3	08/13/2002	8.28	28.62	20.34
	10/27/2004	7.24	28.62	21.38
	09/20/2005	8.53	28.62	20.09
	01/08/2009	8.1	28.62	20.52

Note: TOC - Top of well casing.
* Surveyed in as feet above mean sea level.

APPENDICES

APPENDIX A

Laboratory Data Certificates – October 27, 2004

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation 1412 62nd Street Emeryville, CA 94608	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
		Date Received: 10/28/04
	Client Contact: Estelle Shiroma	Date Reported: 11/02/04
	Client P.O.:	Date Completed: 11/03/04

WorkOrder: 0410425

November 03, 2004

Dear Estelle:

Enclosed are:

1). the results of **5** analyzed samples from your **1240 Powell Street project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
Emeryville, CA 94608	Client Contact: Estelle Shiroma	Date Extracted: 10/30/04
	Client P.O.:	Date Analyzed: 10/30/04

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0410425

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	Trip Blank	W	ND	ND	ND	ND	ND	ND	1	99.0
002A	MW-2	W	ND	ND	ND	ND	ND	ND	1	98.0
003A	MW-1	W	ND	ND	ND	ND	ND	ND	1	99.0
004A	MW-3	W	ND	ND	ND	ND	ND	ND	1	99.0
005A	MW-DUP	W	ND	ND	ND	ND	ND	ND	1	103
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
Emeryville, CA 94608	Client Contact: Estelle Shiroma	Date Extracted: 10/28/04
	Client P.O.:	Date Analyzed: 10/29/04-10/30/04

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0410425

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0410425-002C	MW-2	W	ND	1	88.0
0410425-003C	MW-1	W	ND	1	94.0
0410425-004C	MW-3	W	ND	1	94.0
0410425-005C	MW-DUP	W	ND	1	94.0

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
	Client Contact: Estelle Shiroma	Date Extracted: 10/29/04-11/01/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 10/29/04-11/01/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0410425

Lab ID	0410425-002B
Client ID	MW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	4.2	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	97.0	%SS2:	103
%SS3:	118		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil / sludge / solid samples in µg/kg, wipe samples in µg/wipe, product / oil / non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content; m) the concentration for this compound was above our upper calibration standard and is reported as an estimated value. This data was requested 3 weeks after initial analysis thereby precluding re-analysis at the correct dilution.

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
	Client Contact: Estelle Shiroma	Date Extracted: 10/29/04-11/01/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 10/29/04-11/01/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0410425

Lab ID	0410425-003B
Client ID	MW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	0.71	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	98.0	%SS2:	101
%SS3:	116		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil / sludge / solid samples in µg/kg, wipe samples in µg/wipe, product / oil / non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content; m) the concentration for this compound was above our upper calibration standard and is reported as an estimated value. This data was requested 3 weeks after initial analysis thereby precluding re-analysis at the correct dilution.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
	Client Contact: Estelle Shiroma	Date Extracted: 10/29/04-11/01/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 10/29/04-11/01/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0410425

Lab ID	0410425-004B
Client ID	MW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	96.0	%SS2:	102
%SS3:	118		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil / sludge / solid samples in µg/kg, wipe samples in µg/wipe, product / oil / non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content; m) the concentration for this compound was above our upper calibration standard and is reported as an estimated value. This data was requested 3 weeks after initial analysis thereby precluding re-analysis at the correct dilution.

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 10/27/04
1412 62nd Street		Date Received: 10/28/04
	Client Contact: Estelle Shiroma	Date Extracted: 10/29/04-11/01/04
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 10/29/04-11/01/04

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0410425

Lab ID	0410425-005B
Client ID	MW-DUP
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	96.0	%SS2:	100
%SS3:	106		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil / sludge / solid samples in µg/kg, wipe samples in µg/wipe, product / oil / non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content; m) the concentration for this compound was above our upper calibration standard and is reported as an estimated value. This data was requested 3 weeks after initial analysis thereby precluding re-analysis at the correct dilution.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W WorkOrder: 0410425

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 13741 Spiked Sample ID: 0410425-001A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	ND	60	97.4	95.4	2.12	81.1	80.4	0.937	70	130
MTBE	ND	10	86.1	89.4	3.83	107	106	0.617	70	130
Benzene	ND	10	105	112	6.03	99.5	100	0.979	70	130
Toluene	ND	10	100	107	6.74	91.8	93.3	1.69	70	130
Ethylbenzene	ND	10	103	107	3.91	96.1	97	0.946	70	130
Xylenes	ND	30	91	95.3	4.65	85.3	86	0.778	70	130
%SS:	99.0	10	112	115	2.81	107	105	1.49	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8015C

Matrix: W WorkOrder: 0410425

EPA Method: SW8015C Extraction: SW3510C BatchID: 13740 Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	90.5	89.3	1.36	70	130
%SS:	N/A	2500	N/A	N/A	N/A	86	86	0	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

Matrix: W WorkOrder: 0410425

EPA Method: SW8260B Extraction: SW5030B BatchID: 13739 Spiked Sample ID: 0410414-003B

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	10	83.1	78.7	5.45	85.2	82.2	3.59	70	130
Benzene	ND	10	116	114	1.33	119	120	1.34	70	130
t-Butyl alcohol (TBA)	ND	50	88.1	86.5	1.85	91.1	90.9	0.217	70	130
Chlorobenzene	ND	10	102	97.9	4.58	112	111	0.536	70	130
1,2-Dibromoethane (EDB)	ND	10	100	85.2	16.0	105	102	2.60	70	130
1,2-Dichloroethane (1,2-DCA)	ND	10	109	101	7.56	120	112	6.99	70	130
1,1-Dichloroethene	ND	10	120	111	7.84	122	124	1.28	70	130
Diisopropyl ether (DIPE)	ND	10	121	120	1.00	124	120	2.80	70	130
Ethyl tert-butyl ether (ETBE)	ND	10	117	113	3.51	122	117	4.04	70	130
Methyl-t-butyl ether (MTBE)	ND	10	109	98.2	10.0	113	107	4.93	70	130
Toluene	ND	10	107	103	4.10	116	118	1.38	70	130
Trichloroethene	ND	10	114	110	3.12	123	120	2.30	70	130
%SS1:	108	10	103	100	3.71	104	100	3.29	70	130
%SS2:	104	10	102	97	4.98	104	104	0	70	130
%SS3:	119	10	106	108	1.50	110	111	1.08	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0410425 **ClientID: SCE**

Report to:
Estelle Shiroma
Soma Corporation
1412 62nd Street
Emeryville, CA 94608
TEL: (510) 654-3900
FAX: (510) 654-1960
ProjectNo: 1240 Powell Street
PO:

Bill to:
Estelle Shiroma
Soma Corporation
1412 62nd Street
Emeryville, CA 94608

Requested TAT: 5 days
Date Received: 3:19 PM
Date Printed: 10/28/04

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0410425-002	MW-2	Water	10/27/04 2:48:00	☐	B	A	C												
0410425-003	MW-1	Water	10/27/04 3:31:00	☐	B	A	C												
0410425-004	MW-3	Water	10/27/04 4:17:00	☐	B	A	C												
0410425-005	MW-DUP	Water	10/27/04 4:47:00	☐	B	A	C												

Test Legend:

1	8260B_W	2	G-MBTEX_W	3	TPH(D)_W	4	5
6		7		8		9	10
11		12		13		14	15

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

0410425

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Estelle Shiroma Bill To: Same as "Report to"
Company: SOMA Corporation
1412 62nd Street
Emeryville, CA 94608 E-Mail:
Tele: (510) 654-3900 Fax: (510) 654-1960
Project #: Project Name: 1240 Powell Street
Project Location: 1240 Powell Street, Emeryville, CA
Sampler Signature:

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other
Trip Blank		10/27/04	13:00	2	40 ml VOC	X					X	X		
(+) MW-2		10/27/04	14:48	4	40ml VOAs	X					X	X		
(+) MW-1		10/27/04	15:31	4	↓	X					X	X		
(+) MW-3		10/27/04	16:17	4		X					X	X		
(+) MW-Dup		10/27/04	16:47	4	↓	X					X	X		

Analysis Request															Other	Comments
BTEX & TPH as Gas (602.8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)		Filter Samples for Metals analysis: Yes / No
X																	
X	X									X							
X	X									X							
X	X									X							
X	X									X							

Relinquished By: Date: 10/28/04 Time: 10:27 Received By:
Relinquished By: Date: Time: Received By:
Relinquished By: Date: Time: Received By:

ICE/t° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

PRESERVATION | VOAS | O&G | METALS pH<2 | OTHER

COMMENTS:

10/28/04

APPENDIX B

Laboratory Data Certificates – September 20, 2005

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation 1412 62nd Street Emeryville, CA 94608	Client Project ID: 1240 Powell Street	Date Sampled: 09/20/05
		Date Received: 09/20/05
	Client Contact: Estelle Shiroma	Date Reported: 09/28/05
	Client P.O.:	Date Completed: 09/28/05

WorkOrder: 0509452

September 28, 2005

Dear Estelle:

Enclosed are:

1). the results of **5** analyzed samples from your **1240 Powell Street project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 09/20/05
1412 62nd Street		Date Received: 09/20/05
Emeryville, CA 94608	Client Contact: Estelle Shiroma	Date Extracted: 09/25/05-09/27/05
	Client P.O.:	Date Analyzed: 09/25/05-09/27/05

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0509452

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	Trip Blank	W	ND	ND	ND	ND	ND	ND	1	112
002A	MW-3	W	ND	ND	ND	ND	ND	ND	1	111
003A	MW-1	W	ND	ND	ND	ND	ND	ND	1	106
004A	MW-2	W	ND	ND	ND	ND	ND	ND	1	109
005A	MW-Dup	W	ND	ND	ND	ND	ND	ND	1	107
Reporting Limit for DF =1: ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 09/20/05
1412 62nd Street		Date Received: 09/20/05
Emeryville, CA 94608	Client Contact: Estelle Shiroma	Date Extracted: 09/20/05
	Client P.O.:	Date Analyzed: 09/22/05-09/23/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0509452

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0509452-002C	MW-3	W	ND	1	109
0509452-003C	MW-1	W	ND	1	106
0509452-004C	MW-2	W	ND	1	118
0509452-005C	MW-Dup	W	ND	1	100

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 09/20/05
		Date Received: 09/20/05
1412 62nd Street	Client Contact Estelle Shiroma	Date Extracted: 09/21/05
Emeryville, CA 94608	Client P.O.	Date Analyzed: 09/21/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509452

Lab ID	0509452-002B
Client ID	MW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)			
%SS1:	102	%SS2:	94
%SS3:	93		

Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 09/20/05
		Date Received: 09/20/05
1412 62nd Street	Client Contact Estelle Shiroma	Date Extracted: 09/22/05
Emeryville, CA 94608	Client P.O.	Date Analyzed: 09/22/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509452

Lab ID	0509452-003B
Client ID	MW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	0.64	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	95
%SS3:	85		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 09/20/05
		Date Received: 09/20/05
1412 62nd Street	Client Contact Estelle Shiroma	Date Extracted: 09/22/05
Emeryville, CA 94608	Client P.O.	Date Analyzed: 09/22/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509452

Lab ID	0509452-004B
Client ID	MW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	3.9	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)			
%SS1:	98	%SS2:	94
%SS3:	85		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Soma Corporation	Client Project ID: 1240 Powell Street	Date Sampled: 09/20/05
		Date Received: 09/20/05
1412 62nd Street	Client Contact Estelle Shiroma	Date Extracted: 09/22/05
Emeryville, CA 94608	Client P.O.	Date Analyzed: 09/22/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509452

Lab ID	0509452-005B
Client ID	MW-Dup
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	4.0	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	94
%SS3:	86		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0509452

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 18115** **Spiked Sample ID: 0509452-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	111	95.5	15.0	110	110	0	70 - 130	70 - 130
MTBE	ND	10	88.2	105	17.5	90.1	96.8	7.15	70 - 130	70 - 130
Benzene	ND	10	92.4	112	19.6	86.7	90.7	4.46	70 - 130	70 - 130
Toluene	ND	10	94.4	107	12.8	88.8	92	3.55	70 - 130	70 - 130
Ethylbenzene	ND	10	95.1	107	11.7	89.2	92.2	3.40	70 - 130	70 - 130
Xylenes	ND	30	95.3	90.7	5.02	90.3	94.3	4.33	70 - 130	70 - 130
%SS:	109	10	99	117	17.2	88	90	2.41	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18115 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509452-001A	9/20/05 1:00 PM	9/27/05	9/27/05 8:32 PM	0509452-002A	9/20/05 1:38 PM	9/25/05	9/25/05 6:39 PM
0509452-003A	9/20/05 2:17 PM	9/25/05	9/25/05 7:39 PM	0509452-004A	9/20/05 3:09 PM	9/25/05	9/25/05 8:38 PM
0509452-005A	9/20/05 3:35 PM	9/25/05	9/25/05 9:08 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0509452

EPA Method: SW8015C	Extraction: SW3510C	BatchID: 18116	Spiked Sample ID: N/A

Analyte	Sample µg/L	Spiked µg/L	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%) MS / MSD	Acceptance Criteria (%) LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	102	97.2	4.56	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	102	98	3.91	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18116 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509452-002C	9/20/05 1:38 PM	9/20/05	9/22/05 10:14 PM	0509452-003C	9/20/05 2:17 PM	9/20/05	9/22/05 11:20 PM
0509452-004C	9/20/05 3:09 PM	9/20/05	9/23/05 1:12 PM	0509452-005C	9/20/05 3:35 PM	9/20/05	9/23/05 1:34 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0509452

EPA Method: SW8260B	Extraction: SW5030B	BatchID: 18123	Spiked Sample ID: 0509452-002B

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	85.3	82.2	3.68	91.4	90.2	1.34	70 - 130	70 - 130
Benzene	ND	10	113	110	2.58	113	111	1.41	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	99.7	98.7	1.01	107	102	4.77	70 - 130	70 - 130
Chlorobenzene	ND	10	117	119	1.61	119	117	1.11	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	10	94.6	92.2	2.60	94.5	92.4	2.23	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	111	109	1.21	117	110	5.80	70 - 130	70 - 130
1,1-Dichloroethene	ND	10	96.4	90.3	6.52	109	101	7.58	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	119	119	0	119	118	0.588	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	90.2	86.7	3.98	96.9	96.8	0.145	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	87.1	85.7	1.61	96.1	95.1	1.04	70 - 130	70 - 130
Toluene	ND	10	106	102	3.17	105	103	1.80	70 - 130	70 - 130
Trichloroethene	ND	10	86.2	83.9	2.70	88.9	86.3	3.00	70 - 130	70 - 130
%SS1:	102	10	100	102	1.55	103	102	1.15	70 - 130	70 - 130
%SS2:	94	10	95	94	1.21	96	95	1.33	70 - 130	70 - 130
%SS3:	93	10	99	104	5.08	100	100	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18123 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509452-002B	9/20/05 1:38 PM	9/21/05	9/21/05 6:49 PM	0509452-003B	9/20/05 2:17 PM	9/22/05	9/22/05 3:15 PM
0509452-004B	9/20/05 3:09 PM	9/22/05	9/22/05 4:00 PM	0509452-005B	9/20/05 3:35 PM	9/22/05	9/22/05 4:44 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

SCE 0509452

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Estelle Shirenian Bill To: "Same As Report To"

Company: Soma Corporation

1412 62nd Street

Emeryville, CA 94608 E-Mail:

Tele: (510) 654-3900 Fax: (510) 654-1960

Project #: Project Name:

Project Location: 1240 Powell Street, Emeryville CA 94608

Sampler Signature:

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: ICE	HCL	HNO_3	Other
Trip Blank		9/20/05	13:00	1	VOAs 40ml	X					X	X		
MW-3		9/20/05	13:38	4	1 Liter	X					X	X		
MW-1		9/20/05	14:17	4		X					X	X		
MW-2		9/20/05	15:09	4		X					X	X		
MW-Dup		9/20/05	15:35	4		X					X	X		

Analysis Request																	Other	Comments
BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260B	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)		Filter Samples for Metals analysis: Yes / No
X																		
X	X									X								
X	X									X								
X	X									X								
X	X									X								

Relinquished By: Date: 9/20/05 Time: 5pm Received By:

Relinquished By: Date: Time: Received By:

Relinquished By: Date: Time: Received By:

ICE/t° ✓

GOOD CONDITION ✓

HEAD SPACE ABSENT ✓

DECHLORINATED IN LAB ✓

APPROPRIATE CONTAINERS ✓

PRESERVED IN LAB

COMMENTS:

PRESERVATION	VOAS	O&G	METALS	OTHER
			pH<2	

9/20/05

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0509452 **ClientID: SCE** **EDF: NO**

Report to:
Estelle Shiroma
Soma Corporation
1412 62nd Street
Emeryville, CA 94608
TEL: (510) 654-3900
FAX: (510) 654-1960
ProjectNo: 1240 Powell Street
PO:

Bill to:
Estelle Shiroma
Soma Corporation
1412 62nd Street
Emeryville, CA 94608

Requested TAT: 5 days
Date Received: 09/20/2005
Date Printed: 09/20/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0509452-001	Trip Blank	Water	9/20/05 1:00:00 PM	☐		A													
0509452-002	MW-3	Water	9/20/05 1:38:00 PM	☐	B	A	C												
0509452-003	MW-1	Water	9/20/05 2:17:00 PM	☐	B	A	C												
0509452-004	MW-2	Water	9/20/05 3:09:00 PM	☐	B	A	C												
0509452-005	MW-Dup	Water	9/20/05 3:35:00 PM	☐	B	A	C												

Test Legend:

1	8260B_W	2	G-MBTEX_W	3	TPH(D)_W	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Rosa Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

APPENDIX C

Laboratory Data Certificates – January 8, 2009

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Sampling Services 6680 Alhambra Ave. #102 Martinez, CA 94553	Client Project ID: #1240 Powell Street	Date Sampled: 01/08/09
		Date Received: 01/08/09
	Client Contact: Ron Silberman	Date Reported: 01/14/09
	Client P.O.:	Date Completed: 01/12/09

WorkOrder: 0901130

January 14, 2009

Dear Ron:

Enclosed within are:

1) The results of the **5** analyzed samples from your project: **#1240 Powell Street,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Environmental Sampling Services**
Date and Time Received: **01/08/09 6:14:09 PM**

Project Name: **#1240 Powell Street Assoc.**
Checklist completed and reviewed by: Samantha Arbuckle

WorkOrder N°: **0901130** Matrix Water
Carrier: Derik Cartan (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 3.9°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Sampling Services	Client Project ID: #1240 Powell Street	Date Sampled: 01/08/09
		Date Received: 01/08/09
6680 Alhambra Ave. #102	Client Contact: Ron Silberman	Date Extracted: 01/09/09
Martinez, CA 94553	Client P.O.:	Date Analyzed 01/09/09

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0901130

Lab ID	0901130-001A
Client ID	Trip Blank
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	94	%SS2:	83
%SS3:	91		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Sampling Services	Client Project ID: #1240 Powell Street	Date Sampled: 01/08/09
		Date Received: 01/08/09
6680 Alhambra Ave. #102	Client Contact: Ron Silberman	Date Extracted: 01/09/09
Martinez, CA 94553	Client P.O.:	Date Analyzed 01/09/09

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0901130

Lab ID	0901130-002A
Client ID	MW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethanol	ND	1.0	50
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	95	%SS2:	82
%SS3:	88		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Sampling Services	Client Project ID: #1240 Powell Street	Date Sampled: 01/08/09
		Date Received: 01/08/09
6680 Alhambra Ave. #102	Client Contact: Ron Silberman	Date Extracted: 01/09/09
Martinez, CA 94553	Client P.O.:	Date Analyzed 01/09/09

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0901130

Lab ID	0901130-003A
Client ID	MW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethanol	ND	1.0	50
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	95	%SS2:	82
%SS3:	87		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Sampling Services	Client Project ID: #1240 Powell Street	Date Sampled: 01/08/09
		Date Received: 01/08/09
6680 Alhambra Ave. #102	Client Contact: Ron Silberman	Date Extracted: 01/12/09
Martinez, CA 94553	Client P.O.:	Date Analyzed 01/12/09

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0901130

Lab ID	0901130-004A
Client ID	MW-Dup
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	3.3	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethanol	ND	1.0	50
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	85
%SS3:	78		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Sampling Services	Client Project ID: #1240 Powell Street	Date Sampled: 01/08/09
		Date Received: 01/08/09
6680 Alhambra Ave. #102	Client Contact: Ron Silberman	Date Extracted: 01/12/09
Martinez, CA 94553	Client P.O.:	Date Analyzed 01/12/09

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0901130

Lab ID	0901130-005A
Client ID	MW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	4.8	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethanol	ND	1.0	50
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	99	%SS2:	84
%SS3:	81		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Sampling Services	Client Project ID: #1240 Powell Street	Date Sampled: 01/08/09
		Date Received: 01/08/09
6680 Alhambra Ave. #102	Client Contact: Ron Silberman	Date Extracted: 01/09/09
Martinez, CA 94553	Client P.O.:	Date Analyzed 01/09/09

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0901130

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002B	MW-1	W	ND	---	ND	ND	ND	ND	1	94
003B	MW-3	W	ND	---	ND	ND	ND	ND	1	94
004B	MW-Dup	W	ND	---	ND	ND	ND	ND	1	95
005B	MW-2	W	ND	---	ND	ND	ND	ND	1	94

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Sampling Services	Client Project ID: #1240 Powell Street	Date Sampled: 01/08/09
		Date Received: 01/08/09
6680 Alhambra Ave. #102	Client Contact: Ron Silberman	Date Extracted: 01/08/09
Martinez, CA 94553	Client P.O.:	Date Analyzed 01/09/09

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C Analytical methods: SW8015B Work Order: 0901130

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS
0901130-002C	MW-1	W	ND	1	108
0901130-003C	MW-3	W	ND	1	107
0901130-004C	MW-Dup	W	ND	1	108
0901130-005C	MW-2	W	ND	1	108

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 40724 WorkOrder: 0901130

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0901122-010B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	97.8	104	6.20	101	99.1	1.95	70 - 130	30	70 - 130	30
Benzene	ND	10	120	122	2.13	114	109	4.12	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	2.8	50	87.7	89.2	1.51	103	104	1.54	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	110	116	5.00	105	101	3.65	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	117	124	5.37	113	110	2.84	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	99.8	119	17.6	108	105	2.75	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	80.1	83	3.58	78.1	75.6	3.16	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	107	113	5.32	107	104	2.50	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	115	123	7.01	121	118	2.65	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	8.0	10	91.4	87.6	2.25	111	108	3.05	70 - 130	30	70 - 130	30
Toluene	ND	10	128	126	1.83	119	114	3.76	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	105	121	14.6	106	101	4.87	70 - 130	30	70 - 130	30
%SS1:	100	25	89	95	6.60	91	91	0	70 - 130	30	70 - 130	30
%SS2:	98	25	89	87	2.17	83	84	0.670	70 - 130	30	70 - 130	30
%SS3:	88	2.5	110	85	25.3	92	91	0.178	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 40724 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0901130-001A	01/08/09 8:00 AM	01/09/09	01/09/09 9:18 PM	0901130-002A	01/08/09 10:15 AM	01/09/09	01/09/09 3:28 PM
0901130-003A	01/08/09 10:55 AM	01/09/09	01/09/09 10:04 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644


QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 40727 WorkOrder: 0901130

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0901130-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	104	103	0.554	92.6	93.1	0.606	70 - 130	30	70 - 130	30
Benzene	ND	10	121	120	0.737	110	111	0.245	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	103	100	3.20	90.2	90.6	0.423	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	108	107	1.09	103	102	0.689	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	117	117	0	111	108	2.73	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	3.3	10	116	117	0.567	96.1	95	1.11	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	81.7	81.1	0.684	74.7	75.4	0.881	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	114	114	0	100	101	0.649	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	125	124	0.955	109	109	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	115	115	0	98.7	98	0.671	70 - 130	30	70 - 130	30
Toluene	ND	10	116	116	0	120	120	0	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	119	118	0.744	96.6	96.4	0.148	70 - 130	30	70 - 130	30
%SS1:	99	25	99	99	0	91	90	1.03	70 - 130	30	70 - 130	30
%SS2:	85	25	85	84	1.14	91	90	1.41	70 - 130	30	70 - 130	30
%SS3:	78	2.5	78	77	0.779	105	107	1.65	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 40727 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0901130-004A	01/08/09 11:10 AM	01/12/09	01/12/09 1:20 PM	0901130-005A	01/08/09 11:40 AM	01/12/09	01/12/09 2:03 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 40723 WorkOrder: 0901130

EPA Method SW8021B/8015Cm **Extraction SW5030B** **Spiked Sample ID: 0901128-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	109	106	2.53	99.7	107	7.50	70 - 130	20	70 - 130	20
MTBE	ND	10	98.7	103	4.10	96.3	81.5	16.6	70 - 130	20	70 - 130	20
Benzene	ND	10	86.3	93.9	8.42	88.5	84	5.21	70 - 130	20	70 - 130	20
Toluene	ND	10	89.1	94.9	6.32	94.2	87.4	7.54	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	91.9	85.4	7.35	96.3	88.2	8.84	70 - 130	20	70 - 130	20
Xylenes	ND	30	102	110	7.57	108	99.8	8.05	70 - 130	20	70 - 130	20
%SS:	96	10	99	99	0	103	100	2.92	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 40723 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0901130-002B	01/08/09 10:15 AM	01/09/09	01/09/09 6:40 PM	0901130-003B	01/08/09 10:55 AM	01/09/09	01/09/09 7:14 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 40728 WorkOrder: 0901130

EPA Method SW8021B/8015Cm **Extraction SW5030B** **Spiked Sample ID: 0901130-005B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	102	105	3.23	105	101	3.80	70 - 130	20	70 - 130	20
MTBE	ND	10	94.5	92.9	1.66	86.4	101	16.0	70 - 130	20	70 - 130	20
Benzene	ND	10	89	81.3	9.01	82.9	96.8	15.4	70 - 130	20	70 - 130	20
Toluene	ND	10	91.1	87.7	3.88	86.6	99.3	13.7	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	82.2	91	10.1	86.5	99.2	13.7	70 - 130	20	70 - 130	20
Xylenes	ND	30	103	102	0.274	99	114	13.8	70 - 130	20	70 - 130	20
%SS:	94	10	99	103	4.14	100	101	0.362	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 40728 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0901130-004B	01/08/09 11:10 AM	01/09/09	01/09/09 7:47 PM	0901130-005B	01/08/09 11:40 AM	01/09/09	01/09/09 8:21 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 40729 WorkOrder: 0901130

EPA Method SW8015B **Extraction SW3510C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	96.2	95.9	0.323	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	74	74	0	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 40729 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0901130-002C	01/08/09 10:15 AM	01/08/09	01/09/09 2:09 AM	0901130-003C	01/08/09 10:55 AM	01/08/09	01/09/09 5:35 AM
0901130-004C	01/08/09 11:10 AM	01/08/09	01/09/09 6:43 AM	0901130-005C	01/08/09 11:40 AM	01/08/09	01/09/09 7:51 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

0901130

Environmental Sampling Services

6680 Alhambra Ave., #102
Martinez, California 94553-6105
Tel: (925) 372-8108 Fax: (925) 372-6705
Log Code: ESSM www.envsampling.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

TURN AROUND TIME Other:

LABORATORY: McCampbell
Lab Code: MAC

☐ 24 Hours	☐ 48 Hours	☐ 1 Week	☑ Normal

Report To: Ron Silberman Telephone: 510-547-7177
Company: 1240 Powell Street Assoc. Fax:
Address: 5835 Doyle Street Project Name: 1240 Powell Street
Emeryville, CA 945608 Project Number:
cc results (E-Mail): nozaki4472@gmail.com Bill To: 1240 Powell Street Assoc.
Sampler(s): Jacqueline Lee ☑ Sampler's Signature:
Stephen Penman ☐ Sampler's Signature:
GeoTracker No.: NA
Reporting Requirement: Hard Copy : Yes ☑ No ☐
EDD File: Yes ☑ No ☐ Electronic (EDF) : Yes ☐ No ☑

SAMPLE ID	FIELD POINT NAME	Sample Date	Sample Time	Number of Containers	Type of Container[1]	Matrix: Groundwater	Soil	Soil Vapor	Water	Other	Preservative: Ice	HCl	HNO_3	H_2SO_4	VOCs (EPA 8260B)	TPH-Gasoline & BTEX (EPA 8015) *	Fuel Oxygenates * and Ethanol	TPH-Diesel (EPA 8015)	Field Filtered (FF)	Comments
Trip Blank	QCTB 1	1/8/09	8:00	4	1				X		X	X			X					* Fuel Oxygenates:
MW-1	MW-1	1/8/09	10:15	5	1,2	X					X	X			X	X	X	X		TBA, MTBE, DIPE
MW-3	MW-3	1/8/09	10:55	5	1,2	X					X	X			X	X	X	X		ETBE, TAME, EDB
MW-DUP	QCFD	1/8/09	11:10	5	1,2	X					X	X			X	X	X	X		& 1,2-DCA
MW-2	MW-2	1/8/09	11:40	5	1,2	X					X	X			X	X	X	X		

ICE/t° 1.8 3.9 °C
GOOD CONDITION ✓ APPROPRIATE CONTAINERS ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ✓ PRESERVED IN LAB ✓
PRESERVATION VOAS O&G METALS OTHER

Relinquished By:	Date:	Time:	Received By:
	1/8/2009	14:45	Enviro-Tech SR.
Enviro-Tech SR.	1/8	1600	Derek Coste
Derek Coste	1/8/09	1625	

1 = Sample Container Type: 1 =VOA 2=Glass 3=Plastic 4=Summa Canister

QUESTIONS REGARDING COC, CALL ESS

Please email COC for confirmation to:

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ NA

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0901130 **ClientCode: ESS**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Ron Silberman
Environmental Sampling Services
6680 Alhambra Ave. #102
Martinez, CA 94553
FAX (925) 372-6705

Email: rons51@yahoo.com
cc: nozaki4472@gmail.com
PO:
ProjectNo: #1240 Powell Street

Bill to:
Ron Silberman
1240 Powell Street Assoc.
5835 Doyle Street
Emeryville, CA 945608

Requested TAT: 5 days

Date Received: **01/08/2009**
Date Printed: **01/12/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0901130-001	Trip Blank	Water	1/8/2009 8:00	☐		A		A								
0901130-002	MW-1	Water	1/8/2009 10:15	☐	A		B		C							
0901130-003	MW-3	Water	1/8/2009 10:55	☐	A		B		C							
0901130-004	MW-Dup	Water	1/8/2009 11:10	☐	A		B		C							
0901130-005	MW-2	Water	1/8/2009 11:40	☐	A		B		C							

Test Legend:

1	8260B+7OXY_W	2	8260B_W	3	G-MBTEX_W	4	PREDF REPORT	5	TPH(D)_W
6		7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

APPENDIX D

Hand Written Log Prepared by Susan Hugo, Alameda County Department of Environmental Health, 1991

FILE OR PER NO. S.H. ENVELOPE No.____ of____

☐ OWNER Garza & Assoc.
Address 1240 Powell st.
Emeryville 94608 Phone
☐ Contractor Aqua Science Engr.
Address P.O. Box 535/2500 Old Orchard Canyon San Ramon 94583
Phone 820-9391
David Krull
☐ OTHER (Specify)
Address
Phone
☒ CONTACT FOR INVESTIGATION

PLAN REVIEW	By	Date
$ 432.00 Rec'd.	TS	11/7/91
No. 612146 Plans Rec'd.		
Plans Approved		
Layout Made		
Rejected		
Applicant Notified		
Plans Returned		
Permit Issued		

CONSTRUCTION PROGRESS ACCEPTANCE			
FOOD	Pre-Plaster/drywall		
	Pre-Final		
	Final		

		By	Date
POOL	Pre-Concrete/Gunite		
	Pre-Plaster		
	Final		
EXCAVATION	Septic Tank		
	Absorption Field		
	Absorption Bed		
FINAL	House Sewer		
	Septic Tank		
	Absorption Field		
	Absorption Bed		
OTHER			

STD 6360

	By	Date
Pre-Covering		
Final		

XR

REMARKS

Date	By	
11/8/91	SH	Tank closure plan reviewed, approved.
11/22/91	SH	1-4000 G gasoline Tank removed. Excavation pit accessible to public, no apparent holes in the tank, Excavation pit lined with plastic, stockpiled soil used to backfilled the pit for safety reason. 4 stockpiled soils showed detectable amounts of TPHg, BTX&E, Total Pb, stockpiled soil

REMARKS

Date	By	
		cont'd.
		must be re-excavated. 2 Soil
		samples collected from each
		end of the tank.
11/25/91	SH	Received faxed copy of lab results
		of bottom soil sampling, stockpiled
		soil samples were N.D. for
		both TPH gasoline & BTX&E.

LOCATION

Vicinity Map

DEBITED 8/10/97 SMR

Project # 612146
Fee Paid 432.00
Date 11/7/91

APPENDIX E

Laboratory Data Certificates – April 14, 2010

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Nozaki & Associates	Client Project ID: #RO0002869	Date Sampled: 04/14/10
		Date Received: 04/14/10
3390 Dwight Way	Client Contact: Norm Ozaki	Date Reported: 04/20/10
Berkeley, CA 94704	Client P.O.:	Date Completed: 04/20/10

WorkOrder: 1004412

April 20, 2010

Dear Norm:

Enclosed within are:

1) The results of the **2** analyzed samples from your project: **#RO0002869,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

100 4412

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAY

☐ GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW)

Report To: Norm Ozaki	Bill To: Ron Silberman
Company: Nozaki & Associates	5835 Doyle Street, Suite 101
3390 Dwight Way	Emeryville, CA 94608
Berkeley, CA 94704	E-Mail: nozaki4472@gmail.com
Tele: (510) 301-9869	Fax: ( )
Project #: RO0002869	Project Name:
Project Location: 1240 Powell Street, Emeryville, CA	
Sampler Signature:	

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	HOLD	Other	Other	Other	Comments
B-1@6'	B-1	4-14-10		1			x				x																				✓				Filter Samples for Metals analysis: Yes / No
B-1@9'	B-1	4-14-10		1			x				x				✓		✓								✓										
B-1@12'	B-1	4-14-10		1			x				x																				✓				
B-1@16'	B-1	4-14-10		1			x				x																				✓				
B-2@8'	B-2	4-14-10		1			x				x				✓		✓	✓			✓				✓		✓		✓						

Relinquished By:	Date: 4-14-10	Time: 1500	Received By:
Relinquished By:	Date: 4/14/10	Time: 1620	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° Yes 0.1 °C
GOOD CONDITION ✓
HEAD SPACE ABSENT N/A
DECHLORINATED IN LAB N/A
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB N/A

COMMENTS:

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1004412 **ClientCode: NZKI**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Norm Ozaki
Nozaki & Associates
3390 Dwight Way
Berkeley, CA 94704
(510) 301-9869 FAX

Email: nozaki4472@gmail.com
cc:
PO:
ProjectNo: #RO0002869

Bill to:
Ron Silberman
Nozaki & Associates
5835 Doyle Street, Suite 101
Emeryville, CA 94608
nozaki4472@gmail.com

Requested TAT: 5 days

Date Received: **04/14/2010**
Date Printed: **04/20/2010**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1004412-002	B-1@9'	Soil	4/14/2010	☐			A		A		A					
1004412-005	B-2@8'	Soil	4/14/2010	☐	A	A	A	A	A	A	A					

Test Legend:

1	5520E_SG_S	2	8082A_PCB_S	3	8260B_S	4	8270D-PNA_S	5	G-MBTEX_S
6	LUFT_S	7	TPH(DMO)_S	8		9		10	
11		12							

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Nozaki & Associates**

Date and Time Received: **4/14/2010 9:56:07 PM**

Project Name: **#RO0002869**

Checklist completed and reviewed by: Samantha Arbuckle

WorkOrder N°: **1004412** Matrix Soil

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 1.1°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Nozaki & Associates	Client Project ID: #RO0002869	Date Sampled: 04/14/10
		Date Received: 04/14/10
3390 Dwight Way	Client Contact: Norm Ozaki	Date Extracted: 04/14/10
Berkeley, CA 94704	Client P.O.:	Date Analyzed 04/16/10

Petroleum Oil & Grease with Silica Gel Clean-Up*

Extraction method SM5520E/F Analytical methods SM5520E/F Work Order: 1004412

Lab ID	Client ID	Matrix	POG	DF	% SS	Comments
1004412-005A	B-2@8'	S	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	50	mg/Kg

* water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Nozaki & Associates	Client Project ID: #RO0002869	Date Sampled: 04/14/10
		Date Received: 04/14/10
3390 Dwight Way	Client Contact: Norm Ozaki	Date Extracted: 04/14/10
Berkeley, CA 94704	Client P.O.:	Date Analyzed: 04/16/10

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B Analytical Method: SW8082 Work Order: 1004412

					Reporting Limit for DF =1	
Lab ID	1004412-005A					
Client ID	B-2@8'					
Matrix	S					
DF	1				S	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND				0.05	NA
Aroclor1221	ND				0.05	NA
Aroclor1232	ND				0.05	NA
Aroclor1242	ND				0.05	NA
Aroclor1248	ND				0.05	NA
Aroclor1254	ND				0.05	NA
Aroclor1260	ND				0.05	NA
PCBs, total	ND				0.05	NA
Surrogate Recoveries (%)						
%SS:	102					
Comments						

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Nozaki & Associates	Client Project ID: #RO0002869	Date Sampled: 04/14/10
		Date Received: 04/14/10
3390 Dwight Way	Client Contact: Norm Ozaki	Date Extracted: 04/14/10
Berkeley, CA 94704	Client P.O.:	Date Analyzed: 04/19/10

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1004412

Lab ID	1004412-002A
Client ID	B-1@9'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<2.0	40	0.05	tert-Amyl methyl ether (TAME)	ND<0.20	40	0.005
Benzene	ND<0.20	40	0.005	Bromobenzene	ND<0.20	40	0.005
Bromochloromethane	ND<0.20	40	0.005	Bromodichloromethane	ND<0.20	40	0.005
Bromoform	ND<0.20	40	0.005	Bromomethane	ND<0.20	40	0.005
2-Butanone (MEK)	ND<0.80	40	0.02	t-Butyl alcohol (TBA)	ND<2.0	40	0.05
n-Butyl benzene	0.47	40	0.005	sec-Butyl benzene	0.28	40	0.005
tert-Butyl benzene	ND<0.20	40	0.005	Carbon Disulfide	ND<0.20	40	0.005
Carbon Tetrachloride	ND<0.20	40	0.005	Chlorobenzene	ND<0.20	40	0.005
Chloroethane	ND<0.20	40	0.005	Chloroform	ND<0.20	40	0.005
Chloromethane	ND<0.20	40	0.005	2-Chlorotoluene	ND<0.20	40	0.005
4-Chlorotoluene	ND<0.20	40	0.005	Dibromochloromethane	ND<0.20	40	0.005
1,2-Dibromo-3-chloropropane	ND<0.16	40	0.004	1,2-Dibromoethane (EDB)	ND<0.16	40	0.004
Dibromomethane	ND<0.20	40	0.005	1,2-Dichlorobenzene	ND<0.20	40	0.005
1,3-Dichlorobenzene	ND<0.20	40	0.005	1,4-Dichlorobenzene	ND<0.20	40	0.005
Dichlorodifluoromethane	ND<0.20	40	0.005	1,1-Dichloroethane	ND<0.20	40	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.16	40	0.004	1,1-Dichloroethene	ND<0.20	40	0.005
cis-1,2-Dichloroethene	ND<0.20	40	0.005	trans-1,2-Dichloroethene	ND<0.20	40	0.005
1,2-Dichloropropane	ND<0.20	40	0.005	1,3-Dichloropropane	ND<0.20	40	0.005
2,2-Dichloropropane	ND<0.20	40	0.005	1,1-Dichloropropene	ND<0.20	40	0.005
cis-1,3-Dichloropropene	ND<0.20	40	0.005	trans-1,3-Dichloropropene	ND<0.20	40	0.005
Diisopropyl ether (DIPE)	ND<0.20	40	0.005	Ethylbenzene	ND<0.20	40	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.20	40	0.005	Freon 113	ND<4.0	40	0.1
Hexachlorobutadiene	ND<0.20	40	0.005	Hexachloroethane	ND<0.20	40	0.005
2-Hexanone	ND<0.20	40	0.005	Isopropylbenzene	ND<0.20	40	0.005
4-Isopropyl toluene	ND<0.20	40	0.005	Methyl-t-butyl ether (MTBE)	ND<0.20	40	0.005
Methylene chloride	ND<0.20	40	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.20	40	0.005
Naphthalene	ND<0.20	40	0.005	n-Propyl benzene	0.44	40	0.005
Styrene	ND<0.20	40	0.005	1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005
1,1,2,2-Tetrachloroethane	ND<0.20	40	0.005	Tetrachloroethene	ND<0.20	40	0.005
Toluene	ND<0.20	40	0.005	1,2,3-Trichlorobenzene	ND<0.20	40	0.005
1,2,4-Trichlorobenzene	ND<0.20	40	0.005	1,1,1-Trichloroethane	ND<0.20	40	0.005
1,1,2-Trichloroethane	ND<0.20	40	0.005	Trichloroethene	ND<0.20	40	0.005
Trichlorofluoromethane	ND<0.20	40	0.005	1,2,3-Trichloropropane	ND<0.20	40	0.005
1,2,4-Trimethylbenzene	ND<0.20	40	0.005	1,3,5-Trimethylbenzene	ND<0.20	40	0.005
Vinyl Chloride	ND<0.20	40	0.005	Xylenes	ND<0.20	40	0.005

Surrogate Recoveries (%)

%SS1:	104	%SS2:	91
%SS3:	105		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Nozaki & Associates	Client Project ID: #RO0002869	Date Sampled: 04/14/10
		Date Received: 04/14/10
3390 Dwight Way	Client Contact: Norm Ozaki	Date Extracted: 04/14/10
Berkeley, CA 94704	Client P.O.:	Date Analyzed: 04/19/10

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1004412

Lab ID	1004412-005A
Client ID	B-2@8'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	105	%SS2:	97
%SS3:	107		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Nozaki & Associates	Client Project ID: #RO0002869	Date Sampled: 04/14/10
		Date Received: 04/14/10
3390 Dwight Way	Client Contact: Norm Ozaki	Date Extracted: 04/14/10
Berkeley, CA 94704	Client P.O.:	Date Analyzed: 04/19/10

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS*

Extraction Method: SW3550C Analytical Method: SW8270C Work Order: 1004412

					Reporting Limit for DF =1	
Lab ID	1004412-005A					
Client ID	B-2@8'					
Matrix	S					
DF	1				S	W
Compound	**Concentration**				mg/kg	ug/L
Acenaphthene	ND				0.005	NA
Acenaphthylene	ND				0.005	NA
Anthracene	ND				0.005	NA
Benzo(a)anthracene	ND				0.005	NA
Benzo(a)pyrene	ND				0.005	NA
Benzo(b)fluoranthene	ND				0.005	NA
Benzo(g,h,i)perylene	ND				0.005	NA
Benzo(k)fluoranthene	ND				0.005	NA
Chrysene	ND				0.005	NA
Dibenzo(a,h)anthracene	ND				0.005	NA
Fluoranthene	ND				0.005	NA
Fluorene	ND				0.005	NA
Indeno (1,2,3-cd) pyrene	ND				0.005	NA
1-Methylnaphthalene	ND				0.005	NA
2-Methylnaphthalene	ND				0.005	NA
Naphthalene	ND				0.005	NA
Phenanthrene	ND				0.005	NA
Pyrene	ND				0.005	NA
Surrogate Recoveries (%)						
%SS1	85					
%SS2	82					
Comments						

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Nozaki & Associates	Client Project ID: #RO0002869	Date Sampled: 04/14/10
		Date Received: 04/14/10
3390 Dwight Way	Client Contact: Norm Ozaki	Date Extracted: 04/14/10
Berkeley, CA 94704	Client P.O.:	Date Analyzed: 04/15/10-04/16/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1004412

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
002A	B-1@9'	S	59	ND<1.0	ND<0.10	ND<0.10	ND<0.10	0.17	20	116	d7,d9
005A	B-2@8'	S	ND	ND	ND	ND	ND	ND	1	87	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9) no recognizable pattern

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Nozaki & Associates	Client Project ID: #RO0002869	Date Sampled: 04/14/10
		Date Received: 04/14/10
3390 Dwight Way	Client Contact: Norm Ozaki	Date Extracted: 04/14/10
Berkeley, CA 94704	Client P.O.:	Date Analyzed: 04/16/10

LUFT 5 Metals*

Extraction method: SW3050B Analytical methods: SW6010B Work Order: 1004412

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
005A	B-2@8'	S	TOTAL	ND	34	ND	27	43	1	93	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA	NA	NA
	S	TOTAL	1.5	1.5	5.0	1.5	5.0	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Nozaki & Associates	Client Project ID: #RO0002869	Date Sampled: 04/14/10
		Date Received: 04/14/10
3390 Dwight Way	Client Contact: Norm Ozaki	Date Extracted: 04/14/10
Berkeley, CA 94704	Client P.O.:	Date Analyzed: 04/19/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550C Analytical methods: SW8015B Work Order: 1004412

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1004412-002A	B-1@9'	S	9.8	ND	1	111	e4,e2
1004412-005A	B-2@8'	S	ND	ND	1	105	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e4) gasoline range compounds are significant.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8082

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49898 WorkOrder 1004412

EPA Method SW8082 **Extraction SW3550B** **Spiked Sample ID: 1004281-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	64	0.15	NR	NR	NR	92.9	92.9	0	70 - 130	20	70 - 130	20
%SS:	---#	0.050	---#	---#	N/A	105	102	3.04	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49898 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004412-005A	04/14/10	04/14/10	04/16/10 12:30 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SM5520E/F

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49919 WorkOrder 1004412

EPA Method SM5520E/F **Extraction SM5520E/F** **Spiked Sample ID: 1004261-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
POG	ND	2000	103	104	0.945	94.1	95.7	1.66	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49919 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004412-005A	04/14/10	04/14/10	04/16/10 10:55 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49968 WorkOrder 1004412

EPA Method SW8015B **Extraction SW3550C** **Spiked Sample ID: 1004395-025A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	7.0	40	122	125	1.94	102	104	1.13	70 - 130	30	70 - 130	30
%SS:	91	25	111	111	0	99	100	0.946	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49968 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004412-002A	04/14/10	04/14/10	04/19/10 6:29 PM	1004412-005A	04/14/10	04/14/10	04/19/10 5:07 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49970 WorkOrder 1004412

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1004395-025A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	101	101	0	110	100	9.16	70 - 130	20	70 - 130	20
MTBE	ND	0.10	91	94.2	3.38	107	94.8	11.8	70 - 130	20	70 - 130	20
Benzene	ND	0.10	89.9	91.4	1.60	92.2	92.1	0.204	70 - 130	20	70 - 130	20
Toluene	ND	0.10	89.1	90.6	1.68	92.1	90.8	1.33	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	89.7	91.1	1.54	91.3	91.1	0.243	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	90.1	91.7	1.63	93.1	93.1	0	70 - 130	20	70 - 130	20
%SS:	81	0.10	94	96	1.62	96	96	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49970 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004412-002A	04/14/10	04/14/10	04/15/10 5:38 PM	1004412-005A	04/14/10	04/14/10	04/16/10 7:25 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49987 WorkOrder 1004412

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1004403-019A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	71	72.6	2.16	84.2	79.3	6.01	70 - 130	30	70 - 130	30
Benzene	ND	0.050	105	103	2.07	90.8	89.3	1.66	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	73.8	76.6	3.69	91	87	4.45	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	105	101	3.95	124	114	8.54	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	92.8	87.3	6.13	111	104	6.90	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	93	89.7	3.59	88.8	87.5	1.38	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	104	102	2.39	75.6	76.6	1.39	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	106	102	3.90	94.1	87.2	7.60	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	85.8	84	2.17	94.4	87.7	7.43	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	93	85.6	8.31	86.6	86.4	0.243	70 - 130	30	70 - 130	30
Toluene	ND	0.050	113	110	2.41	126	118	7.10	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	105	103	2.69	117	115	1.34	70 - 130	30	70 - 130	30
%SS1:	89	0.13	105	102	2.57	81	86	5.28	70 - 130	30	70 - 130	30
%SS2:	110	0.13	113	111	1.22	108	108	0	70 - 130	30	70 - 130	30
%SS3:	108	0.013	102	93	8.61	112	103	8.37	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49987 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004412-002A	04/14/10	04/14/10	04/19/10 6:04 PM	1004412-005A	04/14/10	04/14/10	04/19/10 5:19 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 49996 WorkOrder 1004412

EPA Method SW8270C **Extraction SW3550C** **Spiked Sample ID: 1004412-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzo(a)pyrene	ND	0.20	100	99.2	1.12	81.2	81.9	0.896	30 - 130	30	30 - 130	30
Chrysene	ND	0.20	98.3	95.2	3.18	83	80.4	3.28	30 - 130	30	30 - 130	30
1-Methylnaphthalene	ND	0.20	109	104	4.17	96	91.6	4.71	30 - 130	30	30 - 130	30
2-Methylnaphthalene	ND	0.20	101	95.4	5.25	89	86	3.45	30 - 130	30	30 - 130	30
Phenanthrene	ND	0.20	113	114	0.830	111	106	4.83	30 - 130	30	30 - 130	30
Pyrene	ND	0.20	105	103	2.20	92.3	89.4	3.20	30 - 130	30	30 - 130	30
%SS1:	85	2	84	84	0	81	78	4.54	30 - 130	30	30 - 130	30
%SS2:	82	2	80	83	3.19	79	75	4.58	30 - 130	30	30 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49996 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004412-005A	04/14/10	04/14/10	04/19/10 11:39 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1004412

EPA Method SW6010B **Extraction SW3050B** **BatchID: 49995** **Spiked Sample ID: 1004411-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	94.1	94.1	0	10	94.9	93.5	1.54	75 - 125	25	75 - 125	25
Chromium	41	50	102	99.8	1.15	10	98.3	93.4	5.11	75 - 125	25	75 - 125	25
Lead	51	50	NR	NR	NR	10	107	97.4	9.58	75 - 125	25	75 - 125	25
Nickel	40	50	101	96.9	2.20	10	95.5	89.4	6.65	75 - 125	25	75 - 125	25
Zinc	74	500	104	97.8	5.45	100	101	102	0.468	75 - 125	25	75 - 125	25
%SS:	101	250	108	111	2.93	250	107	103	3.33	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 49995 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1004412-005A	04/14/10	04/14/10	04/16/10 8:18 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

ATTACHMENT A

Alameda County Department of Environmental Health
Modified Work Plan Approval – December 23, 2010

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Acting Director

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

December 23, 2009

Mr. Ron Silberman
1240 Powell Street LLC
5835 Doyle Street, Suite 101
Emeryville, CA 94608
(sent via electronic mail to:
RonS51@yahoo.com)

Sean Absher
1240 Powell St LLC
44 Montgomery St # 4200
San Francisco, CA 94104

Frank Garza
Garza & Associates
Unknown Address

Subject: Modified Work Plan Approval; Fuel Leak Case No. RO0002869 and Geotracker, Global ID # Geotracker Global ID T06019727624, Garza & Associates, 1240 Powell St., Emeryville CA 94608

Dear Mr.'s Silberman, Absher, and Garza:

Thank you for the recent submittal of the document entitled *Work Plan Soil and Groundwater Investigation,* dated October 26, 2009, and received at the County's FTP website on November 13, 2009. The document was submitted on your behalf by Nozaki & Associates. ACEH staff has reviewed the document and are in general agreement with the approach outlined in the work plan, but requests several minor modifications, or clarifications, as detailed in the following technical comments. Provided the technical comments are incorporated into the work, it may be implemented. Please provide advance written notification to this office by e-mail (mark.detterman@acgov.org) 72 hours prior to the start of field activities.

TECHNICAL COMMENTS

1. **Source Area Characterization at Waste Oil UST** – Figure 2 of the Work Plan depicts a soil bore location in close proximity to the former location of the waste oil UST. The location appears appropriate to detect potential impact in both soil and groundwater proximal to the former UST location. Please also ensure the following technical comments are incorporated into the work at this location.

    a. The Work Plan indicates that soil and groundwater samples for the waste oil underground storage tank (UST) investigation will be analyzed for total oil and grease (TOG) and polycyclic aromatic hydrocarbons (PAHs). Please also analyze Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, BTEX, fuel oxygenates and lead scavengers, halogenated volatile organic compounds, the five LUFT metals, PCB, PCP (i.e. all compounds or metals as listed in the *Recommended Minimum Verification Analysis for Underground Storage Tank Leaks* for waste oil USTs) by appropriate methodology.

2. **Potential Improper Well Screen Interval** - Figure 2 of the Work Plan depicts a second soil bore location downgradient of the former location of the fuel hydrocarbon USTs at the site to investigate the depth of first groundwater at the site. Please also ensure the following technical comments are incorporated into the work at this location.

    a. Please install this soil bore no deeper than 8 feet bgs to investigate the possibility of shallow groundwater beneath the site, rather than the estimated 12 to 13 feet bgs described in the Work Plan. Please allow sufficient time for water to infiltrate.

b. The Work Plan indicates that the groundwater sample to be collected for this portion of the investigation will be analyzed for BTEX and MTBE by EPA Method 8021B/602 and VOCs by EPA Method 8260B (in addition to TPHg and TPHd by EPA Method 8015M/602). To clarify this point, please also ensure that all fuel oxygenates and lead scavengers are also analyzed with EPA Method 8260B, if shallow groundwater is present in the soil bore. If groundwater is not present please ensure that a soil sample is collected and analyzed as indicated by staining, PID detections, or if none are encountered, at the base of the soil bore above groundwater.

3. **General Technical Comments –** The following technical comments are applicable to both portions of the proposed investigation:

a. The Work Plan did not describe soil bore sampling protocols; while likely an oversight, please ensure that a PID (Photo-Ionization Detector) is utilized to monitor soil during drilling, and that soils will be classified, and soil bore logs submitted, using USCS methods.

b. The Work Plan specified two sample collection depths of 6 and 12 feet below grade surface (bgs). Rather than collect soil samples at the predetermined depths, please ensure that soil samples are collected at signs of impact (staining, PID detections, etc), changes in lithology, or if impacted media is not encountered, directly above first encountered groundwater. Collection of additional soil samples below the lowest sign of contamination will also delineate the vertical extent of any contamination; please ensure that a minimum of one deeper soil sample is collected in each bore.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Mark Detterman), according to the following schedule:

- **March 1, 2010** – Soil and Groundwater Investigation Report

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

Should you have any questions, please contact me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,

Mark E. Detterman, PG, CEG
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Norman Nozaki, Nozaki & Associates, 3390 Dwight Way, Berkeley, CA 94704
(sent via electronic mail to nozaki4472@gmail.com)
Donna Drogos (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org), File

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

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

REQUIREMENTS

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

Additional Recommendations

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

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
         Or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

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

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

ATTACHMENT B

n-Butyl Benzene, sec-Butyl Benzene, n-Propyl Benzene Risk Assessment Documentation

Attachment B
Risk Assessment Documentation

A cursory quantitative risk assessment was employed to evaluate the significance of three chemicals that were discovered in soil during the supplementary site investigation on April 14, 2010. The chemicals were n-butyl benzene, sec-butyl benzene, and n-propyl benzene, which were discovered in concentrations of less than one part per billion (Table 2). At these concentrations, one would not expect these three chemicals to be of concern, but to be more objective, a quantitative approach was elected to lend more support to the conclusion. These three chemicals were discovered in soil at a depth of 9 feet at Boring B-1 beneath the present concrete foundation of the onsite building (Figure 2). These environmental conditions would also preclude actual direct physical contact with the chemicals; however, for the sake of quantitative evaluation, a theoretical incidental ingestion scenario based on current land use was used to evaluate an appropriate potential exposure pathway and potential public health hazards.

Although current land use is commercial, for the sake conservativeness, a residential exposure scenario was evaluated in this evaluation. This exposure scenario represents the regulatory requirements for an unrestricted land-use site closure. The resident is assumed to be a 30-year old receptor born and raised at the Site. To model the child and adult stages of this receptor, the resident receptor is conceptualized as a 6-year period as a child and a 24-year period as an adult. Consequently, the resident receptor is exposed to Site conditions for 6 years as a child and 24 years as an adult, for 350 days per year. Although both child and adult residents were modeled independently in this evaluation, these two receptors are treated as two different periods of a single 30-year old resident receptor.

As suggested by the Office of Environmental Health Hazard Assessment (OEHHA), the RfD for Cumene (CASRN 98-82-8) or isopropyl benzene was used as a surrogate toxicity criterion to evaluate incidental ingestion as a potential exposure pathway (IRIS). The RfD is 1×10^{-1} mg/kg-day. Cumene is not classified as a carcinogen.

The exposure point concentration of n-butyl benzene, sec-butyl benzene, and n-propyl benzene, used in the calculations was the summed total concentration of the three chemicals found in soil. Thus, a concentration of 1.19 mg/kg or 1.19 parts per million was used for the calculations.

Table B-1 presents the equation was used to evaluate the incidental ingestion of soil.

Table B-1. Ingestion Chronic Daily Intake and Hazard Index Equations

Equation Parameters	Acronym	Units	Risk Equation
Incidental Ingestion of Soil			
Ingestion Noncarcinogenic Chronic Daily Intake Factor	Ing NC CDI Factor	mg/kg-day	IngR * CF * FI * EF * ED BW * ATnon-carc
Ingestion Noncarcinogenic Hazard Index	Ing NC HI	unitless	[(Ing NC CDI) * (Soil or Sediment Concentration)] / RfD

Notes:

AT	Averaging time	FI	Fraction ingested
BW	Body weight	HI	Hazard Index
CDI	Chronic daily intake	Ing	Ingestion
CF	Conversion factor	mg/kg-day	Millgrams per kilogram-day
ED	Exposure duration	RfD	Noncarcinogenic reference dose
EF	Exposure frequency		

The input parameters used in the equation above to calculate the hazard index for incidental ingestion is presented in the table below, Table B-2.

Table B-2. Residential Exposure Parameters

Exposure Parameters	Acronym	Units	Value	Source
Adult Resident Receptor				
Incidental Ingestion Pathway				
Ingestion Rate - Adult Resident	AdRes IngR	mg/day	100	Cal/EPA 1992
Unit conversion factor	CF	kg/mg	1.00E-06	NA
Fraction Ingested	FI	Unitless	1	U.S. EPA 1991
General Parameters				
Exposure Frequency - Adult Resident	AdRes EF	days/year	350	Cal/EPA 1992 / U.S. EPA 1991 - Default for resident
Exposure Duration - Adult Resident	AdRes ED	year	24	Cal/EPA 1992 / U.S. EPA 1991 - Default for adult when child is 6 yrs (30 yrs total)
Body Weight - Adult Resident	AdRes BW	kg	70	Cal/EPA 1992 / U.S. EPA 1991
Averaging Time-Non-carcinogenic - Adult Resident	AdRes $AT_{non\text{-}carc}$	days	8760	Calculated (ED [years] * 365 days/year)
Child Resident Receptor				
Incidental Ingestion Pathway				
Ingestion Rate - Child Resident	ChRes IngR	mg/day	200	Cal/EPA 1992 / U.S. EPA 1997
Unit conversion factor	CF	kg/mg	1.00E-06	NA
Fraction Ingested	FI	Unitless	1	U.S. EPA 1991
General Parameters				
Exposure Frequency - Child Resident	ChRes EF	days/year	350	Cal/EPA 1992 / U.S. EPA 1991 - Default for resident
Exposure Duration - Child Resident	ChRes ED	year	6	Cal/EPA 1992 / U.S. EPA 1991 - Default for child when adult is 24 yrs (30 yrs total)
Body Weight - Child Resident	ChRes BW	kg	15	Cal/EPA 1992 / U.S. EPA 1991 - Default for child resident
Averaging Time-Non-carcinogenic - Child Resident	ChRes $AT_{non\text{-}carc}$	days	2190	Calculated (ED [years] * 365 days/year)

Notes:

kg	Kilogram
mg	Milligram

References:

California Environmental Protection Agency (Cal EPA), Department of Toxic Substances Control (DTSC). 1992. *Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities.* July.

DTSC. 1994. Preliminary Endangerment Assessment Guidance Manual. January.

Department of Toxic Substances Control (DTSC). 2000. Guidance for the Dermal Exposure Pathway. Draft Memorandum from S. DiZio, M. Wade, D. Oudiz to Human and Ecological Risk Division. January 17.

United States Environmental Protection Agency (U.S. EPA). 1991. *Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual. Supplemental Guidance: "Standard Default Exposure Parameters"*. Interim Final. March.

U.S. EPA. 1997. Exposure Factors Handbook. Volume I: General Factors. Office of Research and Development.

U.S. EPA. 2000. Region 9 Preliminary Remediation Goals (PRGs) 2000. November 1.

U.S. EPA. 2001. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). Interim Review Draft - For Public Comment. EPA/540/R/99-005. September.

The results of performing the calculation for the hazard index (HI) for adult residents resulting from incidental ingestion of soil containing n-butyl benzene, sec-butyl benzene, and n-propyl benzene at a total concentration of 1.19 mg/kg is 0.000016. This HI is approximately five orders of magnitude lower than an HI that would predict that an adverse health outcome may occur.

The results of performing the calculation for the hazard index (HI) for child residents resulting from incidental ingestion of soil containing n-butyl benzene, sec-butyl benzene, and n-propyl benzene at a total concentration of 1.19 mg/kg is 0.00015. This HI is approximately four orders of magnitude lower than an HI that would predict that an adverse health outcome may occur.

In conclusion, a quantitative evaluation of potential ingestion of onsite soil containing n-butyl benzene, sec-butyl benzene, and n-propyl benzene at a total concentration of 1.19 mg/kg indicates that there would not be an expectation of potential adverse public health effects to individuals based on a residential scenario.